

SPECIFICATIONS PLATFORM POWER PALLET TRUCKS 24V, 2.0 - 2.5 TONNES



NPV20N3 NPV25N3

NPF20N3R NPF25N3R

NPF20N3S NPF25N3S

UNIQUELY PRODUCTIVE AND COMFORTABLE

PROVIDING INNOVATIVE ANSWERS TO THE CHALLENGES OF LOADING/ UNLOADING, SHORT OR LONG TRANSPORT AND EVEN ORDER PICKING, NPV/NPF PLATFORM POWER PALLET TRUCKS OFFER TOP-CLASS PRODUCTIVITY AND COMFORT. THEIR ADVANCES IN TRACTION, DAMPING, STABILITY AND ERGONOMIC CONTROL ENSURE FAST, CONFIDENT AND SAFE OPERATION, WHATEVER THE CONDITIONS.









Models are available with foldable or fixed platforms, 2.0 or 2.5 tonne load capacities and a choice of three chassis lengths. They can also be equipped for Li-ion or lead-acid battery use. NPV20N3 and NPV25N3 folding platform versions feature fold-up/fold-down protective side bars. Side entry fixed platform versions NPF20N3S and NPF25N3S are well suited to order picking and other internal applications. While all NPV and NPF models have comfortable damping, the fixed platforms also offer optional electric adjustment according to the operator's weight and preference. Rear entry fixed platform versions NPF20N3R and NPF25N3R are ideal for loading and unloading operations. Their options include automatic slowdown/stopping, for safety, if the operator's foot is outside the platform. Unprecedented solutions include the *ProRide+* system, which simultaneously maximises traction, damping and stability, even on slippery, wet or irregular surfaces and when cornering. The class-leading *emPower* ergonomic tiller head with user-friendly controls and a choice of steering technologies enables rapid, precisely controlled action.

LOWER COST OF OWNERSHIP

- 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 avoidance, 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

- Fully integrated Li-ion technology makes continuous operation possible, without battery changes, using fast opportunity charging during short breaks. (Buyers can choose between Li-ion and lead-acid truck versions.)
- Compact dimensions this range includes the market's shortest heavyduty pallet trucks – combine with easy, accurate handling to allow quick manoeuvring, even in tight spaces.
- Market-leading lift height (220 mm) makes work easier on steep ramps and loading docks.
- 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 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 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.
- 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

	NPV20N3	NPV25N3	NPF20N3R	NPF25N3R	NPF20N3S	NPF25N3S
GENERAL						
Micro-computer incl. hour meter and battery indicator.						
Standard display incl. hour meter and battery indicator						•
Foldable platform		•	-	-	-	-
Fixed platform, rear entry	-	-			-	-
Fixed platform, side entry	-	-	-	-		•
Mechanical tiller arm			-	-	-	-
Power tiller arm	0	0			-	-
Comfort tiller arm	-	-	0	0		
Crossway pallet indication on forks and marking on fork tips		•				
Chill store design, down to -10°C						
Speed regulated lift motor						
On/off valve for lowering, controlled by rocker switch on tiller head						
Vulkollan drive wheel		•				
Tandem load wheels vulkollan	0					•
Single load wheel		-	-	-	-	-
Closed pallet entry/exit	0	0	0	0	0	0
Quick release of battery lock	0	0	0	0	0	0
Battery rollers	0	0	0	0	0	0
Li-ion batteries*	0	0	0	0	0	0
Lead-acid batteries	0	0	0	0	0	0
ENVIRONMENT						
Cold store design, 0°C to -30°C	0	0	0	0	0	0
DRIVE AND LIFT CONTROLS						
Heavy duty tiller head - with key switch entry						
Tiller up drive	0	0	-	-	-	-
WHEEL OPTIONS						
Vulkollan						
Tractothan	0	0	0	0	0	0
Super grip	0	0	0	0	0	0

FULL LI-ION* BATTERY INTEGRATION

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

Li-ion battery option is available in selected regions.



STANDARD EQUIPMENT AND OPTIONS (CONTINUED)

	NPV20N3	NPV25N3	NPF20N3R	NPF25N3R	NPF20N3S	NPF25N3S
OTHER OPTIONS						
Power steering	0	0				
Multifunction display incl. BDI & Hourmeter, PIN code log in (100 codes) and graphic icons	0	0	0	0	0	0
Load backrest	0	0	0	0	0	0
Multi purpose tray	0	0	0	0	0	0
Key switch entry	•					•
12V DC power socket	0	0	0	0	0	0
5V USB socket	0	0	0	0	0	0
Equipment bar	0	0	0	0	0	0
Writing desk incl. RAM C holder	0	0	0	0	0	0
Equipment bar holder RAM system size C	0	0	0	0	0	0
Equipment bar holder RAM system size C, 2 pcs	0	0	0	0	0	0
Equipment bar holder RAM size D	0	0	0	0	0	0
Working lights LED	0	0	0	0	0	0
Increased drive speed with/without load 10.5/12.5 km/h (only in combination with power steering)	0	0	0	0	0	0
Active Spin Reduction	0	0	0	0	0	0
Special RAL colour	0	0	0	0	0	0
Battery creep	0	0	0	0	0	0
Battery level audible warning	0	0	0	0	0	0
Service alarm	0	0	0	0	0	0
Automatic log off	0	0	0	0	0	0
Revert to low speed at log off	0	0	0	0	0	0
Revert to low speed at operator absent	0	0	0	0	0	0





CHASSIS AND BATTERY DIMENSIONS

	Chassis		Bat 24 V	tery type	Battery Battery compartment capacity, Cell type		capacity, Compariment b		Battery compartment			Weight of battery, kg	Approximate weight of truck, kg
Mini	Junior	Senior	Lead-acid	Li-ion	Ah	Lift out	Steel rollers	Fixed		Min/Max	Without battery		
			•		240 - 300	•	0		BS - British standard	250 / 200	500		
•				•	222			•	Prismatic NMC	250 / 300	500		
					270 - 375				DIN	005 / 050	505		
	•		•		280 - 400	•	0		BS - British standard	285 / 350	505		
				•	296 / 370			•	Prismatic NMC	250 / 470	F10		
		•			420 - 600	•	0		BS - British standard	350 / 470	510		

	o			NPV20/25N3			NPF20/2	Truck							
Chassis		Truck length	I ₁ (I=1150) mm		, mm et lengthwise)	Truck length I ₁ (I=1150) mm	AST, mm (1 x EU-pallet lengthwise)	width b ₁ mm							
Mini	Junior	Senior	Platform up	Platform down	Platform up	Platform down	Platform real	r or side entry							
			1880	2256	2299	2652	2292	2692	740						
	•		1960 2336		1960 2336		1960 2336		2379 2732		2336 2379 2732		2372	2772	740
			2024	2400	2443	2796	2436	2836	740						



	Characteristics				
1.1	Manufacturer			Cat Lift Trucks	Cat Lift Trucks
1.2	Manufacturer's model designation			NPV20N3 9)	NPV25N3 9)
1.3	Power source			Battery	Battery
1.4	Operator type			Pedestrian/stand-on	Pedestrian/stand-on
1.5	Load capacity	Q	(kg)	2000	2500
1.6	Load centre distance	С	(mm)	600	600
1.8	Load wheel axle to fork face (forks lowered)	х	(mm)	975	975
1.9	Wheelbase	у	(mm)	1437	1437
	Weight				
2.1b	Truck weight without load, with maximum battery weight		kg	750	750
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1015 / 1742	1128 / 2129
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	570 / 187	570 / 187
	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)	235 x 75	235 x 75
3.3	Tyre dimensions, load side		(mm)	85 x 75	85 x 75
3.4	Castor wheel dimensions (diameter x width)		(mm)	150 x 60	150 x 60
3.5	Number of wheels, load / drive side (x = driven)			4 / 1 x +2	4 / 1x +2
3.6	Track width (centre of tyres), drive side	b10	(mm)	520	520
3.7	Track width (centre of tyres), load side	b11	(mm)	b5 - 175	b5 - 175
	Dimensions				
4.4	Lift height	h3	(mm)	135	135
4.8	Seat or stand height	h7	(mm)	171	171
4.9	Height of tiller arm / steering console (minimum./maximum.)	h14	(mm)	1099 / 1512	1099 / 1512
4.15	Fork height, fully lowered	h13	(mm)	85	85
4.19	Overall length	1	(mm)	1880 / 2256	1880 / 2256
4.20	Length to fork face	12	(mm)	730 / 1106	730 / 1106
4.21	Overall width	b1/b2	(mm)	740	740
4.22	Fork dimensions (thickness, width, length)	s/e/l	(mm)	60 / 175 / 1150	60 / 175 / 1150
4.25	Outside width over forks (minimum / maximum)	b5	(mm)	560	560
4.32	Ground clearance at centre of wheelbase (forks lowered)	m2	(mm)	25	25
4.33c	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast	(mm)	2472 / 2825	2472 / 2825
4.33d	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise, platform up/down	Ast3	(mm)	1953 / 2306	
4.34c	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast	(mm)	2358 / 2711	2358 / 2711
4.34d	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise, platform up/down	Ast3	(mm)	2153 / 2506	2153 / 2506
4.35	Turning radius	Wa	(mm)	1666 / 2019	1666 / 2019
	Performance				
5.1	Travel speed, with / without load		km / h	10 / 10 ⁷⁾	10 / 10 ⁷⁾
5.2	Lifting speed, with / without load		m/s	0.07 / 0.09	0.06 / 0.09
5.3	Lowering speed, with / without load		m/s	0.12 / 0.09	0.11 / 0.09
5.7	Gradeability, with / without load		%	14 / 22	11 / 22
5.9	Acceleration time (10 metres) with / without load		S	6.1 / 5.3	6.5 / 5.3
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric
	Electric motors				
6.1	Drive motor capacity (60 min. short duty)		kW	2.4	2.4
6.2	Lift motor output at 15% duty factor		kW	2.2	2.2
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah	24 / 22210-300	24 / 22210-300
6.5	Battery weight		kg	250 - 300	250 - 300
6.6b	Energy consumption according to VDI 60 cycle	k	Wh/h	0.4	0.42
	Miscellaneous				
8.1	Type of drive control			Stepless	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)	62	64
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10.5 / 12.5 km/h with power steering and tandem wheels
Comfort Steering
Different chassis sizes to accompany various battery capacities are optional. Optional chassis sizes may influence truck dimensions. Please refer to the Chassis and Battery tables or ask your dealer for full details.
Shows Li-lon capacity; Lead Acid battery 240Ah

11 Manufature Call Life Trades Call Life Trades Call Life Trades 12 Manufatures Call Life Trades MPS7M88 *		Characteristics				
13 Power source Samo/ Battery 15 Load regachy 0 figl Samo/ <	1.1				Cat Lift Trucks	Cat Lift Trucks
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4.8 Seat or stand height h7 (nm) 170 170 4.9 Height of tille run' steering console (minium./maximum.) h14 (nm) B5 85 4.15 fork height, fully/lowered h13 (nm) B5 85 4.19 Overall length 11 (nm) 2292 2292 4.20 Length fork face 12 (nm) 404 1141 1141 4.21 Overall width st/loz (nm) 60 / 175 / 1150 60	4.4		h3	(mm)	135	135
4.9 Height of tiller am / steering console (minimum,/maximum,) h14 (nm) 1119 / 1428 1119 / 1428 4.15 Fork height, fully lowered h13 (nm) 85 85 4.19 Overall length 11 (nm) 2292 2292 20 Length fork face 12 (nm) 1141 1141 4.21 Overall width b1/b2 (nm) 60 / 175 / 1150 60 / 175 / 1150 4.22 Fork dimensions (thickness, width, length) s / e / l m 60 / 175 / 1150 60 / 175 / 1150 4.23 Ground clearance at centre of wheelbase (forks lowered) m2 (nm) 256 2865 4.33 Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise Ast (nm) 2366 2366 4.34 Working aisle width (Ast) with 800 x 1200 nm pallets, load crosswise Ast (nm) 2571 2751 4.34 Working aisle width (Ast) with 800 x 1200 nm pallets, load crosswise Ast (nm) 2059 2059 4.35 Turing radius mark 007 / 0.09 0.06 / 0.09 0.17 / 0.09 5.1 Torel speed, with / without load m /s			h7	(mm)		
4.15 Fork height, fully lowered h13 fmm) 85 85 4.19 Dverall length 11 (nm) 2292 2292 4.10 Length to fork face 12 (nm) 1141 1141 4.20 Length to fork face 12 (nm) 740 740 4.21 Dercall width b1/b2 (nm) 740 740 60/175/1150 60/175/1150 60/175/1150 60/175/1150 550 550 550 550 550 550 550 550 550 525 2855 2855 2855 2855 2855 2855 2861 2346 2346 <td< td=""><td></td><td>5</td><td>h14</td><td>(mm)</td><td></td><td></td></td<>		5	h14	(mm)		
4.19 Overall length 11 (mm) 2292 2292 4.20 Length to fork face 12 (mm) 1141 1141 4.21 Overall with b1/b2 (mm) 60/175/1150 60/175/1150 4.25 Outside width over forks (minimum / maximum) 55 (mm) 560 560 4.25 Outside width over forks (minimum / maximum) b5 (mm) 2865 2865 4.30 Working aisle widt hat) with 1000 x 1200 mm pallets, load crosswise Asti modifying aisle widt hat) with 800 x 1200 mm pallets, load crosswise Asti modifying aisle widt hat) with 800 x 1200 mm pallets, load lengthwise Asti modifying aisle widt hat) with 800 x 1200 mm pallets, load lengthwise Asti modifying aisle widt hat) with 800 x 1200 mm pallets, load lengthwise Asti modifying aisle widt hat) with 800 x 1200 mm pallets, load lengthwise Asti modifying aisle widt hat) 2751 2751 4.34 Working aisle widt hat load fming radius 2009 2059 2059 5 Turning radius m/h 10 / 10 ⁿ 10 / 10 ⁿ 10 / 10 ⁿ 5.1 Tarvel speed, with / without load m /s 6.1/5.3 6.1/5.3<		5 5 · ·	h13	(mm)		
4.20 Length to fork face 12 (mm) 1141 1141 4.21 Overall width b1b2 (mm) 740 740 4.22 Fork dimensions (thickness, width, length) s/e/1 (mm) 60 / 175 / 1150 60 / 175 / 1150 4.22 Fork dimensions (thickness, width, length) m2 (mm) 550 560 560 4.32 Ground clearance at centre of wheelbase (forks lowered) m2 (mm) 235 25 4.33b Working aisle width (Ast) with 1000 x 1200 mn pallets, load crosswise Ast (mm) 2346 2346 4.34b Working aisle width (Ast3) with 1000 x 1200 mn pallets, load lengthwise Ast3 (mm) 259 256 4.34b Working aisle width (Ast3) with 800 x 1200 mn pallets, load lengthwise Ast3 (mm) 2751 2751 4.34b Working aisle width (Ast3) with 800 x 1200 mn pallets, load lengthwise Ast3 (mm) 2059 2059 7 Performance			1	(mm)		2292
4.21 Dverall width b1/b2 1 740 740 4.22 Fork dimensions (thickness, width, length) s / e / l (mm) 60 / 175 / 1150 60 / 175 / 1150 4.25 Outside width over forks (minimu / maximum) b5 (mm) 560 560 4.26 Fork dimensions (thickness, width, length) m2 (mm) 255 25 4.33 Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise Ast (mm) 2346 2346 4.34 Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) 2346 2346 4.34 Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) 22546 2546 4.34 Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise Wa (mm) 2059 2059 7 Tarvel speed, with / without load m/s 0.07 / 0.09 0.06 / 0.09 5.1 Travel speed, with / without load m/s 0.12 / 0.09 0.11 / 0.09 5.2 Gradeability, with / without load m/s 6.1 / 5.3 6.5 / 5.3		5	12	(mm)		
4.22 Fork dimensions (thickness, width, length) \$\$ / e / 1 (mm) \$\$ 0 / 175 / 1150 \$\$ 0 / 175 / 1150 4.25 Outside width over forks (minimum / maximum) \$\$ 0 / 175 / 1150 \$\$ 500 \$\$ 500 4.32 Ground clearance at centre of wheelbase (forks lowered) m2 (mm) \$\$ 25 \$\$ 25 4.33 Working aisle width (Ast1) with 1000 x 1200 mm pallets, load crosswise Ast3 (mm) \$\$ 2865 \$\$ 2865 4.34 Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) \$\$ 2346 \$\$ 2865 4.34 Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) \$\$ 256 \$\$ 2865 4.34 Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) \$\$ 2346 \$\$ 2346 4.35 furning radius Data lengthwise Ast3 (mm) \$\$ 256 \$\$ 2865 4.35 furning radius Norking aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) \$\$ 2346 \$\$ 2346 4.35 furning radius Norking aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) \$\$ 2566 \$\$ 2566 5.1 fravel speed, with / without load <	_		b1/b2	(mm)	740	740
4.25 Outside width over forks (minimum / maximum) b5 (mm) 560 4.32 Ground clearance at centre of wheelbase (forks lowered) m2 (mm) 25 25 4.33 Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise Ast3 (mm) 2346 2346 4.349 Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise Ast3 (mm) 2346 2346 4.349 Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) 2546 2546 4.34 Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) 2546 2546 4.35 Turning radius Ma (mm) 2059 2059 2059 Performance m/h 10 / 10 ⁿ 10 / 10 ⁿ 10 / 10 ⁿ 5.1 Travel speed, with / without load m / s 0.07 / 0.09 0.66 / 0.09 5.3 Lowering speed, with / without load m / s 6.1 / 5.3 6.5 / 5.3 5.10 Service brakes (mechanical / hydrautic / electric / pneumatic) Electric Electric 6.1 Drive motor capacity (60 min. short duty)	_		s/e/l	(mm)		
4.32 Ground clearance at centre of wheelbase (forks lowered) m2 (mm) 25 25 4.33a Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise Ast (mm) 2865 2865 4.33b Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise Ast (mm) 2346 2346 4.34a Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise Ast (mm) 2751 2751 4.34b Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise Ast (mm) 2566 2546 4.35 Turning radius Wa (mm) 2059 2059 2059 7 Travel speed, with / without load m / s 0.07 / 0.09 0.06 / 0.09 0.1 / 10 ⁷ 5.1 Travel speed, with / without load m / s 0.12 / 0.09 0.11 / 0.09 0.11 / 0.09 5.2 Lowering speed, with / without load m / s 6.1 / 5.3 Electric Electric 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) KW 2.4 2.4 2.4 6.1 Drive motor capacity (60 min, short duty) KW 2.4 2.4 2.2 2.2 2.2 <			b5	(mm)		
4.33a Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise Ast (mm) 2865 2865 4.33b Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise Ast (mm) 2346 2346 4.34a Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise Ast (mm) 2751 2751 4.34b Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise Ast (mm) 2059 2059 4.35 Turning radius Wa (mm) 2059 2059 2059 7 Performance 0.07 / 0.09 0.06 / 0.09 5.1 Travel speed, with / without load m / s 0.17 / 0.09 0.11 / 0.0 ^m 10 / 10 ^m 5.2 Lifting speed, with / without load m / s 0.12 / 0.09 0.11 / 0.09 0.11 / 0.09 5.3 Lowering speed, with / without load s 6.1 / 5.3 6.5 / 5.3 6.5 / 5.3 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) Electric Electric Electric 6.1 Drive motor capacity (60 min. short duty) KW 2.4 2.4 2.4 6.2 L			m2			
A33b Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise Ast3 (mm) 2346 2346 4.34a Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) 2546 2546 4.34b Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) 2546 2546 4.35 Turning radius Wa (mm) 2059 2059 Verformance Va (mm) 2059 2059 5.1 Travel speed, with / without load m / s 0.07 / 0.09 0.06 / 0.09 5.3 Lowering speed, with / without load m / s 0.12 / 0.09 0.11 / 0.09 5.7 Gradeability, with / without load m / s 6.1 / 5.3 6.5 / 5.3 5.10 Service brakes (mechanical / hydrauic / electric / pneumatic) E E E 6.1 Drive motor capacity (60 min. short duty) KW 2.4 2.4 2.4 6.1 Drive motor capacity (60 min. short duty) KW 2.2 2.2 2.2 <t< td=""><td>_</td><td></td><td>Ast</td><td></td><td></td><td></td></t<>	_		Ast			
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4.34b Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise Ast3 (mm) 2546 2546 4.35 Turning radius Wa (mm) 2059 2059 Performance 10 / 10 ⁷ 10 / 10 ⁷ 5.1 Travel speed, with / without load m / s 0.07 / 0.09 0.06 / 0.09 5.2 Lifting speed, with / without load m / s 0.12 / 0.09 0.11 / 0.09 5.3 Lowering speed, with / without load m / s 0.12 / 0.09 0.11 / 0.09 5.7 Gradeability, with / without load s 6.1 / 5.3 6.5 / 5.3 5.10 Service brakes (mechanical / hydralic / electric / pneumatic) s 6.1 / 5.3 6.5 / 5.3 5.10 Service brakes (mechanical / hydralic / electric / pneumatic) Electric Electric Electric motors 2.2 2.2 2.2 6.1 Drive motor capacity (60 min. short duty) KW 2.4 2.4 6.2 Lift motor output at 15% duty factor kg 250 - 300 250 - 300 6.4 Battery	_		Ast			
4.35 Turning radius Wa (mm) 2059 2059 Performance <t< td=""><td>_</td><td></td><td></td><td></td><td></td><td></td></t<>	_					
Performance Image: Constraint of the second se	_		Wa	(mm)		
5.1 Travel speed, with / without load km / h 10 / 10 $^{\eta}$ 10 / 10 $^{\eta}$ 5.2 Lifting speed, with / without load m / s 0.07 / 0.09 0.06 / 0.09 5.3 Lowering speed, with / without load m / s 0.12 / 0.09 0.11 / 0.09 5.7 Gradeability, with / without load % 3.15 11 / 22 5.9 Acceleration time (10 metres) with / without load s 6.1 / 5.3 6.5 / 5.3 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) Electric Electric Electric Electric motors 6.1 Drive motor capacity (60 min. short duty) kW 2.4 2.4 6.2 Lift motor output at 15% duty factor kW 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24/222**300 24/222**300 6.5b Energy consumption according to VD160 cycle kWh / h 0.4 0.42 Miscellaneous Stepless Stepless Stepless						
5.2 Lifting speed, with / without load m / s 0.07 / 0.09 0.06 / 0.09 5.3 Lowering speed, with / without load m / s 0.12 / 0.09 0.11 / 0.09 5.7 Gradeability, with / without load % 13 / 15 11 / 22 5.9 Acceleration time (10 metres) with / without load \$ 6.1 / 5.3 6.5 / 5.3 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) Electric Electric Electric motors 6.1 Drive motor capacity (60 min. short duty) kW 2.4 2.4 6.2 Lift motor output at 15% duty factor kW 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 2.4/222**.300 2.5/- 300 6.5 Battery weight kg 2.50 - 300 2.50 - 300 2.50 - 300 6.6 Energy consumption according to VD160 cycle kWh / h 0.4 0.42 Miscellaneous Stepless Stepless Stepless	5.1	Travel speed, with / without load		km / h	10 / 10 ⁷⁾	10 / 10 ⁷⁾
5.3 Lowering speed, with / without load m / s 0.12 / 0.09 0.11 / 0.09 5.7 Gradeability, with / without load % 13 / 15 11 / 22 5.9 Acceleration time (10 metres) with / without load s 6.1 / 5.3 6.5 / 5.3 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) Electric Electric Electric motors 6.1 Drive motor capacity (60 min. short duty) KW 2.4 2.4 6.1 Drive motor capacity (60 min. short duty) KW 2.2 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24/ 222 ^m -300 24/ 222 ^m -300 250 - 300 250 -	5.2			m/s	0.07 / 0.09	0.06 / 0.09
5.7 Gradeability, with / without load % 13 / 15 11 / 22 5.9 Acceleration time (10 metres) with / without load s 6.1 / 5.3 6.5 / 5.3 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) Electric Electric Electric motors Colspan="2">Colspan="2"Colspan="2">Colspan="2"Cols	5.3	Lowering speed, with / without load		m/s	0.12 / 0.09	0.11 / 0.09
5.9 Acceleration time (10 metres) with / without load S 6.1 / 5.3 6.5 / 5.3 5.10 Service brakes (mechanical / hydraulic / electric / pneumatic) Electric Electric Electric motors Electric 6.1 Drive motor capacity (60 min. short duty) KW 2.4 2.4 6.2 Lift motor output at 15% duty factor KW 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 2.4 / 222 ¹⁰ -300 2.4 / 222 ¹⁰ -300 6.5 Battery weight kg 250 - 300 2.0 - 300 6.5 Ferrgy consumption according to VDI 60 cycle kWh / h 0.4 0.42 8.1 Type of drive control Stepless Stepless Stepless	5.7			%	13 / 15	11 / 22
Electric motors Image: Constraint of the system of the	5.9			S	6.1 / 5.3	6.5 / 5.3
B.1 Drive motor capacity (60 min. short duty) KW 2.4 2.4 6.2 Lift motor output at 15% duty factor KW 2.2 2.2 6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24/222 ⁿ -300 24/222 ⁿ -300 6.5 Battery weight kg 250-300 250-300 6.6b Energy consumption according to VD160 cycle kWh /h 0.4 0.42 Miscellaneous Stepless	5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric
Chromitation reduction (communication of the composition) Chromitation (communication) Chromitation		Electric motors				
6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24/222 ^{10,3} 00 24/222 ^{10,3} 00 6.5 Battery weight kg 250-300 250-300 6.6b Energy consumption according to VDI 60 cycle kWh / h 0.4 0.42 Miscellaneous 8.1 Type of drive control Stepless Stepless	6.1	Drive motor capacity (60 min. short duty)		kW	2.4	2.4
6.4 Battery voltage/capacity at 5-hour discharge V / Ah 24/222 ^{10,3} 00 24/222 ^{10,3} 00 6.5 Battery weight kg 250-300 250-300 6.6b Energy consumption according to VDI 60 cycle kWh / h 0.4 0.42 Miscellaneous 8.1 Type of drive control Stepless Stepless	6.2			kW	2.2	2.2
6.5 Battery weight kg 250 - 300 250 - 300 250 - 300 250 - 300 250 - 300 0.4 0.42				V / Ah	24 / 22210-300	24 / 22210-300
6.6b Energy consumption according to VDI 60 cycle kWh / h 0.4 0.42 Miscellaneous Stepless 8.1 Type of drive control Stepless Stepless	_			kg		
Miscellaneous Stepless 8.1 Type of drive control Stepless Stepless	_			-		
8.1 Type of drive control Stepless Stepless						
	8.1				Stepless	Stepless
	10.7.1			dB (A)	62	64





10.5 / 12.5 km/h with power steering and tandem wheels
Comfort Steering
Different chassis sizes to accompany various battery capacities are optional. Optional chassis sizes may influence truck dimensions. Please refer to the Chassis and Battery tables or ask your dealer for full details.
Shows Li-lon capacity; Lead Acid battery 240Ah

	Characteristics				
1.1	Manufacturer			Cat Lift Trucks	Cat Lift Trucks
1.2	Manufacturer's model designation			NPF20N3S 9)	NPF25N3S ⁹⁾
1.3	Power source			Battery	Battery
1.4	Operator type			Stand-on	Stand-on
1.5	Load capacity	0	(kg)	2000	2500
1.6	Load centre distance	С	(mm)	600	600
1.8	Load wheel axle to fork face (forks lowered)	х	(mm)	975	975
1.9	Wheelbase	у	(mm)	1437	1437
	Weight				
2.1b	Truck weight without load, with maximum battery weight		kg	800	800
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg	1202 / 1688	1193 / 2107
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	634 / 166	643 / 166
	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)	235 x 75	235 x 75
3.3	Tyre dimensions, load side		(mm)	85 x 75	85 x 75
3.4	Castor wheel dimensions (diameter x width)		(mm)	150 x 60	150 x 60
3.5	Number of wheels, load / drive side (x = driven)			4 / 1x +2	4 / 1x +2
3.6	Track width (centre of tyres), drive side	b10	(mm)	520	520
3.7	Track width (centre of tyres), load side	b11	(mm)	b5 - 175	b5 - 175
	Dimensions				
4.4	Lift height	h3	(mm)	135	135
4.8	Seat or stand height	h7	(mm)	170	170
4.9	Height of tiller arm / steering console (minimum./maximum.)	h14	(mm)	1130 / 12978)	1130 / 12978)
4.15	Fork height, fully lowered	h13	(mm)	85	85
4.19	Overall length	1	(mm)	2292	2292
4.20	Length to fork face	12	(mm)	1141	1141
4.21	Overall width	b1/b2	(mm)	740	740
4.22	Fork dimensions (thickness, width, length)	s/e/l	(mm)	60 / 175 / 1150	60 / 175 / 1150
4.25	Outside width over forks (minimum / maximum)	b5	(mm)	560	560
4.32	Ground clearance at centre of wheelbase (forks lowered)	m2	(mm)	25	25
4.33a	Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise	Ast	(mm)	2865	2865
4.33b	Working aisle width (Ast3) with 1000 x 1200 mm pallets, load crosswise	Ast3	(mm)	2346	2346
4.34a	Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise	Ast	(mm)	2751	2751
4.34b	Working aisle width (Ast3) with 800 x 1200 mm pallets, load lengthwise	Ast3	(mm)	2546	2546
4.35	Turning radius	Wa	(mm)	2059	2059
	Performance				
5.1	Travel speed, with / without load		km / h	10 / 10 ⁷⁾	10 / 10 7)
5.2	Lifting speed, with / without load		m/s	0.07 / 0.09	0.06 / 0.09
5.3	Lowering speed, with / without load		m/s	0.12 / 0.09	0.11 / 0.09
5.7	Gradeability, with / without load		%	13 / 15	11 / 22
5.9	Acceleration time (10 metres) with / without load		s	6.1 / 5.3	6.5 / 5.3
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)			Electric	Electric
	Electric motors				
6.1	Drive motor capacity (60 min. short duty)		kW	2.4	2.4
6.2	Lift motor output at 15% duty factor		kW	2.2	2.2
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah	24 / 22210-300	24 / 22210-300
6.5	Battery weight		kg	250 - 300	250 - 300
6.6b	Energy consumption according to VDI 60 cycle	k	:Wh/h	0.4	0.42
	Miscellaneous				
8.1	Type of drive control			Stepless	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)	62	64





10.5 / 12.5 km/h with power steering and tandem wheels
Comfort Steering
Different chassis sizes to accompany various battery capacities are optional. Optional chassis sizes may influence truck dimensions. Please refer to the Chassis and Battery tables or ask your dealer for full details.
Shows Li-lon capacity; Lead Acid battery 240Ah

CAT® LI-ION BATTERIES

TIME TO SWITCH?

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.



ΠΙΟΝ

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.

info@catlifttruck.com | www.catlifttruck.com

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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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