

EQ Line

LiION
BATTERY TECHNOLOGY



EQ LINE PRELIMINARY SPECIFICATIONS
PLATFORM POWER PALLET TRUCK
24V, 2.0 TONNES

NPV2002L

VERSATILE, COMFORTABLE AND EFFICIENT

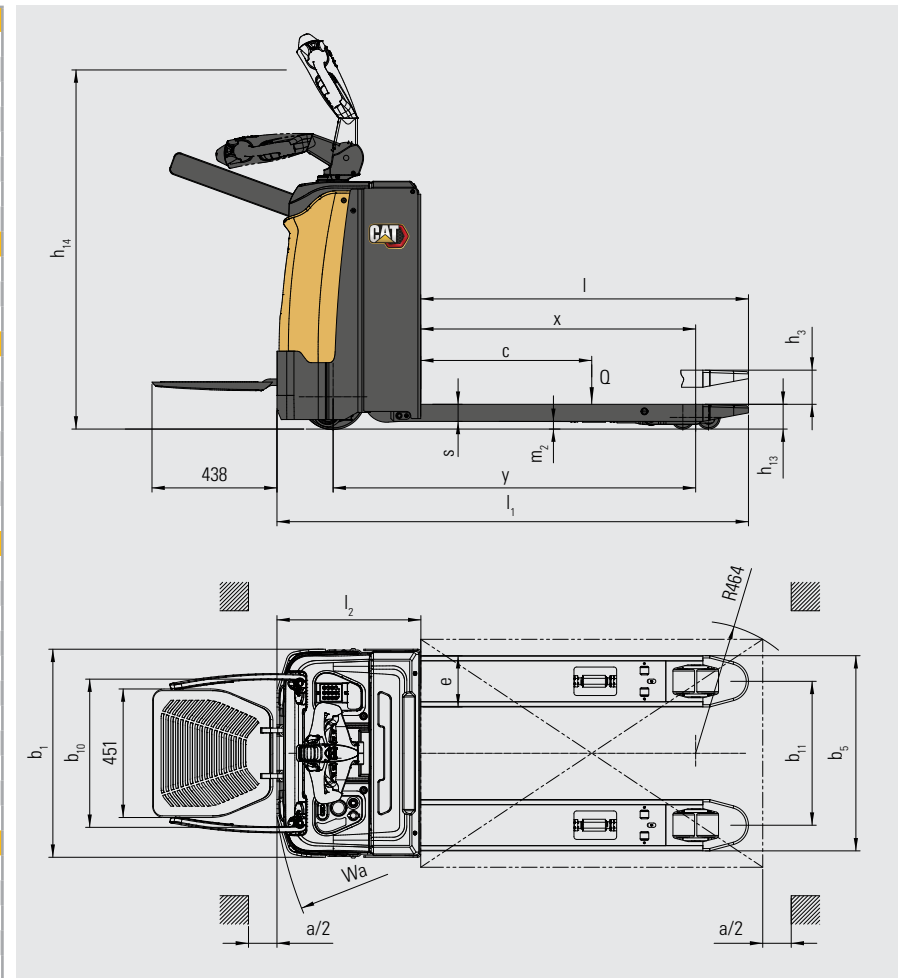
**WALK OR RIDE
– WHICHEVER BEST SUITS THE TASK**

This truck keeps materials handling simple but adds the extra versatility, comfort and productive efficiency of a folding ride-on platform. It's ideal for light and medium warehouse duties, including horizontal transport and vehicle loading/unloading. Use the platform for faster performance over longer distances – and reduce operator fatigue.

CAT[®]

Characteristics			
1.1	Manufacturer		
1.2	Manufacturer's model designation		
1.3	Power source		
1.4	Operator type		
1.5	Load capacity	Q	(kg)
1.6	Load centre distance	c	(mm)
1.8	Load wheel axle to fork face (forks lowered)	x	(mm)
1.9	Wheelbase	y	(mm)
Weight			
2.1b	Truck weight without load, with maximum battery weight		kg
2.2	Axle loadings with nominal load & maximum battery weight, drive / load side		kg
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg
Wheels, Drive Train			
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side		
3.2	Tyre dimensions, drive side		(mm)
3.3	Tyre dimensions, load side		(mm)
3.4	Castor wheel dimensions (diameter x width)		(mm)
3.5	Number of wheels, load/drive side (x=driven)		
3.6	Track width (centre of tyres), drive side	b10	(mm)
3.7	Track width (centre of tyres), load side	b11	(mm)
Dimensions			
4.4	Lift height	h3	(mm)
4.9	Height of tiller arm / steering console (min./max.)	h14	(mm)
4.15	Fork height, fully lowered	h13	(mm)
4.19	Overall length	l1	(mm)
4.20	Length to fork face	l2	(mm)
4.21	Overall width	b1	(mm)
4.22	Fork dimensions (thickness, width, length)	s / e / l	(mm)
4.25	Outside width over forks (minimum-maximum)	b5	(mm)
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2	(mm)
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)
Performance			
5.1	Travel speed, with/without load		km / h
5.2	Lifting speed, with/without load		m / s
5.3	Lowering speed, with/without load		m / s
5.8	Maximum gradeability with / without load		%
5.10	Service brakes (mechanical / hydraulic / electric / pneumatic)		
Electric motors			
6.1	Drive motor capacity (60 min. short duty)		kW
6.2	Lift motor output at 15% duty factor		kW
6.3	Battery to DIN		no
6.4	Battery voltage/capacity at 5-hour discharge		V / Ah
6.5	Battery weight		kg
6.6a	Energy consumption according to EN16796		kWh/h
Miscellaneous			
8.1	Type of drive control		
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)

Cat Lift Trucks
NPV20QL
Battery
Pedestrian
2000
600
995
1272
P/P
230x70
82x82
100x40
1x+2/2 (4)
520
360 / 505
120
1070/1260
85
1655
505
730
60/180/1150
540/685
25
2152/2231
1488
7/8
0.047/0.064
0.06/0.059
8/15
Regenerative
1.4
2.2
no
24/150
100
0.19
AC
<70



STANDARD EQUIPMENT AND OPTIONS

GENERAL	NPV20QL
ZF 1.4kW AC drive motor	●
Curtis controller	●
PIN code access and RFID card	●
Electric power steering (EPS)	●
USB connector	●
24V/150Ah Li-ion battery	●
24V 80A charger	●
Forks: 540 x 1150mm	●
Forks: 685 x 1150mm	○
Forks: 685 x 1000mm	○

● Standard ○ Option

CAT LIFT TRUCKS QUALITY – FOR EVEN THE SMALLEST JOBS

Our EQ line warehouse trucks have everything you need for dependable, entry-level materials handling. That includes sturdy construction, simple maintenance, energy-efficient features, robust performance, user-friendly design, and safety. A product line for light applications. If that's what you need to get your job done, the EQ line is your perfect choice.

The platform is easy to fold down for ride-on mode, which speeds up travel over large areas. In narrower spaces, pedestrian mode – with platform and side bars folded away – reduces the truck's dimensions. Tiller up drive makes it smaller still. Thanks to its small turning radius, it requires less aisle width than comparable power pallets.

Compact size, high stability and ergonomic tiller-arm control make the truck quick and comfortable in operation. Pallet load handling is smooth and strong, thanks largely to the high-quality forks and modern AC drive motor.

Li-ion battery technology and flexible, convenient charging ensure maximum productive action.

Durable construction and minimal maintenance needs mean low servicing bills. Together with a low price, long service life and economical energy consumption, these factors reduce your total cost of operation (TCO).



LOWER COST OF OWNERSHIP

- High-quality, robust construction – including a short and strong steel chassis – ensures reliable operation over a long lifetime, with minimal servicing and repair needs.
- Durable, adjustable pull-rod lifting system offers extra structural strength, with high resistance to bending and deforming, for reliable performance, maximum stability and long life.
- AC drive motor promises a long service life with low maintenance needs.
- Li-ion batteries give maximum lifespan, efficiency and runtime, with no need for water top-ups or other maintenance.
- Fast plug-in diagnostics, troubleshooting and programming – via an external port – reduce downtime and maintain efficient performance.
- LCD display includes fault warnings and hour meter, enabling timely attention to prevent damage.
- Easy service access – including quick-release covers – saves on time and cost of maintenance.
- Convenient PIN code access and keyless start, supported by RFID tags, prevents unauthorised use and saves time.

UNMATCHED PRODUCTIVITY

- High-powered drive motor and pump, with dual hydraulic cylinders, ensure strong performance.
- Compact and stable design enables fast, safe performance with great manoeuvrability.
- 24V/150Ah high-capacity Li-ion battery gives powerful performance and long runtime between charges.
- Li-ion technology makes continuous operation possible, without battery changes, using fast opportunity charging during short breaks.
- Advanced battery management system (BMS) optimises

power, lifetime and safety.

- LCD BDI (battery discharge indicator) and hour meter support optimal timing of battery charging/changing.
- Built-in USB port enables onboard charging of devices such as phones and barcode readers.

SAFETY AND ERGONOMICS

- Folding platform can be quickly deployed to save effort and increase speed over longer distances – or folded up to reduce dimensions when working in smaller spaces.
- Protective side bars are easy to fold into place, to help avoid falls and defend against impacts.
- Ergonomic, spring-loaded, short tiller arm provides a comfortable grip and low-effort operation for maximum control with minimal fatigue or strain.
- Electric power steering enables precise and almost effortless manoeuvrability.
- Multifunctional tiller head conveniently places controls within easy reach.
- Turtle/creep speed button allows manoeuvring with tiller arm vertical, for safe movement through narrow spaces.
- Li-ion battery chemistry means no risk of hazardous gas or acid leaks.

EQ LINE LI-ION BATTERIES

Our EQ line warehouse trucks come equipped with lithium-ion (Li-ion) battery technology.

A great advantage of Li-ion is that it allows the use of opportunity charging. Instead of exchanging batteries between shifts, you can simply plug into a fast charger during short breaks. Your business will also enjoy the other efficiency, environmental and safety benefits outlined here.



LONGER LIFE

– 3 to 4 times lead-acid lifespan –
reduces overall battery investment



FASTER CHARGING

– enables full charge in as little as
1 hour with the fastest chargers



HIGHER EFFICIENCY

– energy losses during charging and
discharging are up to 30% lower, so
electricity consumption is reduced



NO BATTERY CHANGING

– fast opportunity charging –
15 minutes for several hours of
extra runtime – makes operation
convenient with just one battery and
minimises the need to buy, store and
maintain spares



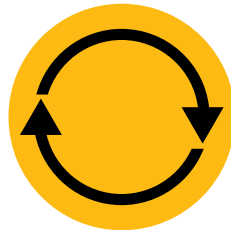
LONGER RUNTIME

– 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



NO DAILY MAINTENANCE

– the battery stays on board the
truck for charging and there is
no need for water top-ups or
electrolyte checks



CONSISTENTLY HIGH PERFORMANCE

– with a more constant voltage curve
– maintains truck performance even
as battery charge gets low



INBUILT PROTECTION

– intelligent battery management
system (BMS) automatically
prevents excessive discharge,
charge, voltage and temperature, as
well as virtually eliminating misuse

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