

EQ Line

LITHION
BATTERY TECHNOLOGY

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

NPV200L

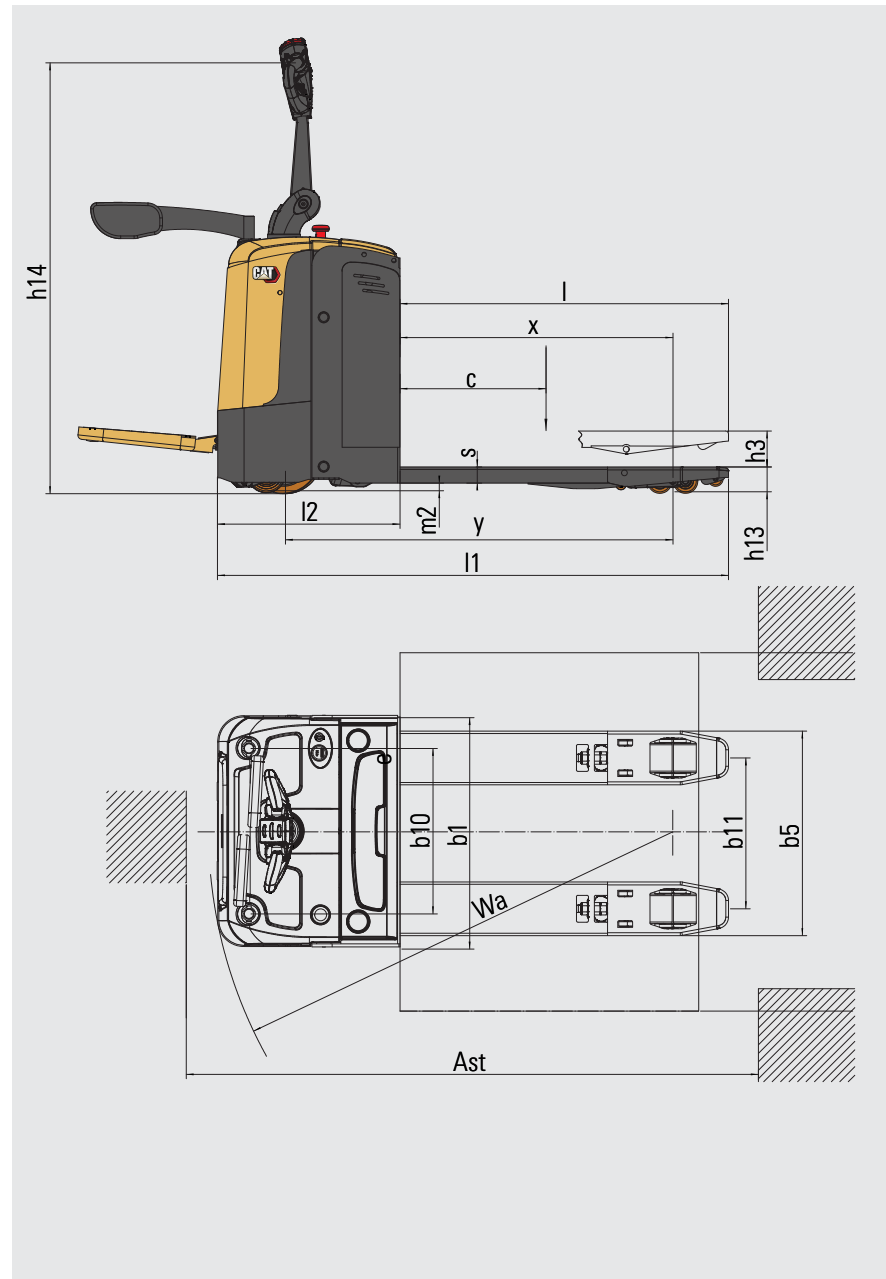
VERSATILE, COMFORTABLE AND EFFICIENT

**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 | | Cat Lift Trucks |
| 1.2 | Manufacturer's model designation | | NPV20QL |
| 1.3 | Power source | | Battery |
| 1.4 | Operator type | | Pedestrian |
| 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) 964 |
| 1.9 | Wheelbase | y | (mm) 1261 |
| Weight | | | |
| 2.1a | Truck weight with load, with maximum battery weight | | kg 710 |
| 2.2 | Axle loadings with nominal load & maximum battery weight, drive / load side | | kg 1300 / 1410 |
| 2.3 | Axle loadings without load & with maximum battery weight, drive / load side | | kg 600 / 110 |
| Wheels, Drive Train | | | |
| 3.1 | Tyres: PT=Power Thane, Vul=Vulkollan, P=Polyurethane, N=Nylon, R=Rubber drive/load side | | P / P |
| 3.2 | Tyre dimensions, drive side | (mm) | 250 x 80 |
| 3.3 | Tyre dimensions, load side | (mm) | 82X126 (Single) 82x98 (Tandem) |
| 3.4 | Castor wheel dimensions (diameter x width) | (mm) | 127 x 57 |
| 3.5 | Number of wheels, load/drive side (x=driven) | | 1x + 2/2 (4) |
| 3.6 | Track width (centre of tyres), drive side | b10 | (mm) 537 |
| 3.7 | Track width (centre of tyres), load side | b11 | (mm) 340 / 370 / 470 / 505 |
| Dimensions | | | |
| 4.4 | Lift height | h3 | (mm) 120 |
| 4.9 | Height of tiller arm / steering console (min./max.) | h14 | (mm) 1050 / 1450 |
| 4.15 | Fork height, fully lowered | h13 | (mm) 82 |
| 4.19 | Overall length | l1 | (mm) 1760 |
| 4.20 | Length to fork face | l2 | (mm) 610 / 1072 |
| 4.21 | Overall width | b1 | (mm) 775 |
| 4.22 | Fork dimensions (thickness, width, length) | s / e / l | (mm) 54 / 180 / 1150 |
| 4.25 | Outside width over forks (minimum-maximum) | b5 | (mm) 520 / 550 / 650 / 685 |
| 4.32 | Ground clearance at centre of wheelbase, (forks lowered) | m2 | (mm) 28 |
| 4.33c | Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down | Ast | (mm) 1960 / 2422 |
| 4.34c | Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down | Ast | (mm) 2010 / 2472 |
| 4.35 | Turning radius | Wa | (mm) 1600 |
| Performance | | | |
| 5.1 | Travel speed, with/without load | km / h | 7 / 7.1 |
| 5.2 | Lifting speed, with/without load | m / s | 0.025 / 0.035 |
| 5.3 | Lowering speed, with/without load | m / s | 0.035 / 0.030 |
| 5.8 | Maximum gradeability with / without load | % | 8 / 20 |
| 5.10 | Service brakes (mechanical / hydraulic / electric / pneumatic) | | Electric |
| Electric motors | | | |
| 6.1 | Drive motor capacity (60 min. short duty) | kW | 1.5 |
| 6.2 | Lift motor output at 15% duty factor | kW | 1.2 |
| 6.4 | Battery voltage/capacity at 5-hour discharge | V / Ah | 24 / 210 |
| 6.5 | Battery weight | kg | 195 |
| 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) | 70 |
| 10.7.2 | Whole-body vibration (EN 13 059:2002) | | Refer to instruction manual |
| 10.7.3 | Service brakes (mechanical / hydraulic / electric / pneumatic) | | <-2.5 |



EQLine

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.

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. There's even a battery heating system to ensure efficient performance on cold days.

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 ensures reliable operation over a long lifetime, with minimal servicing and repair needs.
- High-strength 6 mm manganese steel forks resist deformation.
- Fork wheel pivot points are enclosed and protected within the fork design to avoid wear when operating on ramps.
- Durable pull rod offers extra structural strength, with high resistance to bending and deforming, for reliable performance and long life.
- AC drive motor promises a long service life with low maintenance needs, thanks to elimination of brushes and commutators.
- Regenerative braking increases battery runtime, by recycling energy, and extends brake component life.
- Li-ion batteries give maximum lifespan, efficiency and runtime, with no need for water top-ups or other maintenance.
- Battery heating system optimises efficiency in cold environments, down to 1°C.
- Plug-in diagnostics and troubleshooting require only a laptop, software and a cable – not an expensive hand-held device – to reduce downtime and maintain efficient performance.

UNMATCHED PRODUCTIVITY

- Compact and stable design enables fast, safe performance with great manoeuvrability.
- Side castor wheels further enhance stability.
- Forks with tapered tips and integral polyurethane wheels enable smooth pallet entry and exit and quiet running.
- 24V/125Ah high-capacity Li-ion battery gives powerful performance and long runtime between charges.

- Optional higher capacity Li-ion battery (225Ah) further extends operating hours.
- Li-ion technology makes continuous operation possible, without battery changes, using fast opportunity charging during short breaks.
- Internal charger (optional) allows simple plugging in to any suitable electrical socket, wherever you are.
- Sideways battery exchange requires no additional tools or devices and takes just 10 seconds.
- BDI (battery discharge indicator) and hour meter support optimal timing of battery charging/charging.

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 tiller arm provides a comfortable grip and low-effort operation for maximum control with minimal fatigue or strain.
- Power steering enables almost effortless manoeuvrability.
- Cornering control automatically slows truck down when turning, to maintain safe motion.
- Multifunctional tiller head conveniently places controls within easy reach.
- Turtle/creep speed switch allows manoeuvring with tiller arm vertical, for safe movement through narrow spaces.
- Electromagnetic brake system enhances braking performance.
- Parking brake is automatically applied when the truck stops on gradients and ramps.
- 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



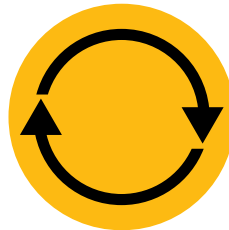
LONGER RUNTIME

– 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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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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