

NPP16N3  
NPP18N3  
NPP20N3



# PEDESTRIAN POWER

## SPECIFICATIONS

**PEDESTRIAN POWER PALLET TRUCKS** 24V, 1.6 - 2.0 TONS



# 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 VIRTUALLY 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 truck. The NPP18N3 and NPP20N3 add greater capacity for heavier loads and more intensive work.

## LOWER COST OF OWNERSHIP

- Sturdy chassis construction and endurance-tested forks provide enhanced robustness and durability even in some of 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 even more.
- Integrated drive and lift system features fewer components than previous models, reducing scope of maintenance.
- Closed battery compartment with steel cover protects battery against impacts.
- 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 ramps and loading docks, making this an ideal truck for both horizontal pallet movements and vehicle loading/unloading.
- Advanced AC programmable controller lets users prioritize 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 optimized for increased stability.

## ERGONOMICS

- Latest tiller arm design allows for comfortable operating position with optimum hand protection.
- Super-quiet oil-filled transmission helps keep noise levels low.
- Optional large lift and lower levers allow for easy, one-handed control, even with gloves.
- Linked suspension castor wheels help to ensure highest possible truck stability.

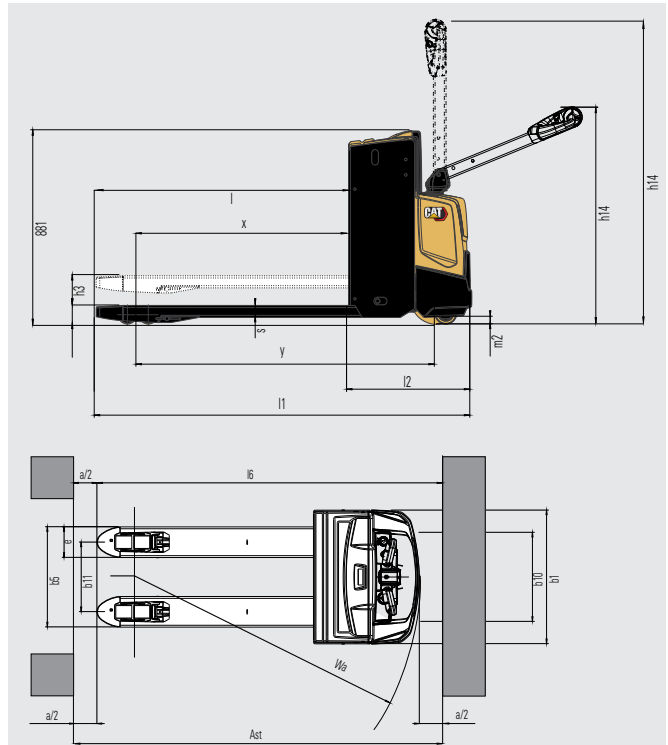


# STANDARD EQUIPMENT AND OPTIONS

|  | NPP16N3 | NPP18N3 | NPP20N3 |
|--|---------|---------|---------|
| <b>GENERAL</b>   |         |         |         |
| LED battery discharge indicator, no hour meter   | ●       | ●       | ●       |
| PIN code login 4 codes   | ○       | ○       | ○       |
| Electric on/off valve for lifting and lowering, controlled by rocker switch on tiller head | ●       | ●       | ●       |
| Single or tandem load wheels Polyurethane  | ●       | ●       | ●       |
| <b>ENVIRONMENT</b>   |         |         |         |
| Cold store design, 0°C to -35°C  | ○       | ○       | ○       |
| Hot operating condition modification, >30C°  | ○       | ○       | ○       |
| <b>DRIVE AND LIFT CONTROLS</b>   |         |         |         |
| Tiller up drive  | ●       | ●       | ●       |
| <b>WHEEL OPTIONS</b>   |         |         |         |
| Polyurethane traction and load wheels  | ●       | ●       | ●       |
| Power friction traction wheel  | ○       | ○       | ○       |
| Tandem Polyurethane load wheels  | ○       | ●       | ●       |
| Single Polyurethane load wheels  | ○       | ●       | ●       |
| Non-marking drive wheel  | –       | –       | –       |
| <b>OTHER OPTIONS</b>   |         |         |         |
| Key switch   | ●       | ●       | ●       |
| Load backrest  | ○       | ○       | ○       |
| Pallet entry and exit rollers  | ○       | ○       | ○       |
| Special RAL color  | ○       | ○       | ○       |
| Built-in charger 30A   | ○       | ○       | ○       |
| Sideways battery change, 250Ah and 375Ah battery only                                      | –       | ○       | ○       |
| Battery changing device  | –       | ○       | ○       |
| Accessory rack   | ○       | ○       | ○       |
| Working light  | ○       | ○       | ○       |

| Characteristics                |   |                | Cat Lift Trucks | Cat Lift Trucks | Cat Lift Trucks              |
|--------------------------------|---|----------------|-----------------|-----------------|------------------------------|
| 1.1                            | Manufacturer  |                | <b>NPP16N3</b>  | <b>NPP18N3</b>  | <b>NPP20N3</b>               |
| 1.2                            | Manufacturer's model designation  |                | Battery         | Battery         | Battery                      |
| 1.3                            | Power source  |                | Pedestrian      | Pedestrian      | Pedestrian                   |
| 1.4                            | Operator type   |                | 1600            | 1800            | 2000                         |
| 1.5                            | Load capacity   | Q (kg)         | 600             | 600             | 600                          |
| 1.6                            | Load center distance  | c (mm)         | 960             | 960             | 960                          |
| 1.8                            | Load wheel axle to fork face (forks lowered)  | x (mm)         | 1360            | 1425            | 1425                         |
| 1.9                            | Wheelbase   | y (mm)         |                 |                 |                              |
| <b>2.0 Weight</b>              |   |                |                 |                 |                              |
| 2.1b                           | Truck weight without load, with maximum battery weight  | kg             | 430             | 500             | 500                          |
| 2.2                            | Axle loadings with nominal load & maximum battery weight, drive / load side                                     | kg             | 745 / 1290      | 805 / 1495      | 840 / 1660                   |
| 2.3                            | Axle loadings without load & with maximum battery weight, drive / load side                                     | kg             | 340 / 90        | 380 / 120       | 380 / 120                    |
| <b>3.0 Wheels, Drive Train</b> |   |                |                 |                 |                              |
| 3.1                            | Tires: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side             |                | Vul / Vul       | Vul / Vul       | Vul / Vul                    |
| 3.2                            | Tire dimensions, drive side   | (mm)           | 230 x 70        | 230 x 70        | 230 x 70                     |
| 3.3                            | Tire dimensions, load side  | (mm)           | 85 x 90         | 85 x 75         | 85 x 75                      |
| 3.4                            | Castor wheel dimensions (diameter x width)  | (mm)           | 100 x 40        | 100 x 40        | 100 x 40                     |
| 3.5                            | Number of wheels, load / drive side (x = driven)  |                | 2 + 1x / 2      | 2 + 1 x / 4     | 2 + 1 x / 4                  |
| 3.6                            | Track width (center of tires), drive side   | b10 (mm)       | 480             | 480             | 480                          |
| 3.7                            | Track width (center of tires), load side  | b11 (mm)       | 375             | 375             | 375                          |
| <b>4.0 Dimensions</b>          |   |                |                 |                 |                              |
| 4.4                            | Lift height   | h3 (mm)        | 135             | 135             | 135                          |
| 4.9                            | Height of tiller arm / steering console (min/max)   | h14 (mm)       | 865 / 1420      | 865 / 1420      | 865 / 1420                   |
| 4.15                           | Fork height, fully lowered  | h13 (mm)       | 85              | 85              | 85                           |
| 4.19                           | Overall length  | l1 (mm)        | 1650            | 1710            | 1710                         |
| 4.20                           | Length to fork face   | l2 (mm)        | 500             | 560             | 560                          |
| 4.21                           | Overall width   | b1/b2 (mm)     | 720             | 720             | 720                          |
| 4.22                           | Fork dimensions (thickness, width, length)  | s / e / l (mm) | 55 / 165 / 1150 | 55 / 165 / 1150 | 55 / 165 / 1150              |
| 4.25                           | Outside width over forks (minimum / maximum)  | b5 (mm)        | 540             | 540             | 540                          |
| 4.32                           | Ground clearance at center of wheelbase, (forks lowered)  | m2 (mm)        | 30              | 30              | 30                           |
| 4.33c                          | Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise, platform up/down                         | Ast (mm)       | 2339            | 2475            | 2472                         |
| 4.34c                          | Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise, platform up/down                         | Ast (mm)       | 2176            | 2281            | 2281                         |
| 4.35                           | Turning radius  | Wa (mm)        | 1510            | 1551            | 1551                         |
| <b>5.0 Performance</b>         |   |                |                 |                 |                              |
| 5.1                            | Travel speed, with / without load   | km / h         | 6.0 / 6.0       | 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   | 0.04 / 0.05                  |
| 5.3                            | Lowering speed, with / without load   | m / s          | 0.05 / 0.05     | 0.06 / 0.042    | 0.05 / 0.06                  |
| 5.7                            | Gradeability, with / without load   | %              | 10.0 / 20.0     | 10.0 / 20.0     | 10.0 / 20.0                  |
| 5.10                           | Service brakes (mechanical / hydraulic / electric / pneumatic)  |                | Electric        | Electric        | Electric                     |
| <b>6.0 Electric motors</b>     |   |                |                 |                 |                              |
| 6.1                            | Drive motor capacity (60 min. short duty)   | kW             | 1.0             | 1.0             | 1.0                          |
| 6.2                            | Lift motor output at 15% duty factor  | kW             | 0.8             | 0.8             | 1.2                          |
| 6.4                            | Battery voltage/capacity at 5-hour discharge  | V / Ah         | 24 / 150        | 24 / 250        | 24 / 250 - 375 <sup>1)</sup> |
| 6.5                            | Battery weight  | kg             | 150             | 210             | 210                          |
| 6.6a                           | Energy consumption according to EN16796   | kWh / h        | 0.23            | 0.26            | 0.26                         |
| <b>8.0 Miscellaneous</b>       |   |                |                 |                 |                              |
| 8.1                            | Type of drive control   |                | Electric        | Electric        | Electric                     |
| 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 / 69 / 0     | 62 / 69 / 0     | 65 / 67 / 0                  |
| 10.7.3                         | Hand-arm vibration (EN 13 059:2002)   |                | < 2.5           | < 2.5           | < 2.5                        |

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



**NPP16/18/20N3**

Ast = Wa-x+l6+200

Ast = Working aisle width

Wa = Turning radius

a = minimum recommended passing clearance (200 mm)

l6 = Pallet length

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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.

