

NOBLELIFT

# PTE15-20Q2-A PTE15-20Q2-B

Walkie Pallet Truck

 Li-ion series



Smart Design



CAN-bus



Best  
Cost-performance  
Ratio



1500-2000kg  
Light Weight



Small Size



Low  
Service-weight



Li  
Lithium Battery

# ATOM

NEW / *Noblelift Products*  
ARRIVAL

## PTE15-20Q2-A/PTE15-20Q2-B

The newly upgraded ATOM lithium powered pallet truck showcases nimble performance with lighter weight. Providing an ideal solution for material handling in supermarkets, workshop internal logistics, and other occasions.

The battery is equipped with lithium iron phosphate as standard, which can be quickly replaced and used or charged at any time.

The structure of the truck is more compact and more efficient. It provides customers with a new solution that can replace manual and semi-electric products. More importantly, it can greatly reduce the physical damage to the operators caused by the long-term pulling or lifting and lowering operation comparing to the traditional manual products. The light weight of the truck, without sacrificing the strength of frame, is very suitable for places with confined space or limit to truck weight.



### Ergonomic & Smart Tiller

- Turtle Speed Button
- Vertical Drive Function
- LEDs for Battery Charge Level Fault Code Indication
- Removable Key Switch for access control



BACK



FRONT

Emergency-reverse & Horn Buttons

Electric Lifting and Lowering

The tiller interface is designed to be easy to operate, with a clear fault display for quick diagnosis, and a safety alarm for much safer. All controls are designed for convenient operation.



The ATOM can turn safely in narrow spaces.

## Grade ability & Robustness

- ▶ The covering parts outside the frame not only provide a novel and unique shape for the product, but also play a good role in protecting the main components.



- ▶ Because the thickness of the forks is increased from 2.75mm to 4mm and the thickness of the outer plate of the whole truck is not less than 4mm, the chassis and the frame become stronger and more durable.



- ▶ The Atom adopts 24V DC permanent magnet motor technology. The use of large-diameter driving wheels enhances the truck's ability to pass obstacles.



### Robust & Smart Design of Chassis

Strong and compact structure of chassis helps to ensure long service time of the truck, without sacrificing the truck's weight or putting under question the strength of frame.

Greater grade ability. With the support of batteries above 30Ah, the full capacity of the truck can reach 9%, and it can be easily operated on the packing platform and other delivery situations.



## Easy Maintenance & Smart Controlling System



Easy Maintenance. Maintenance can be done by you can only use the external programming.

The most reliable structure of the hydraulic system is controlled to the minimum.

### CAN-bus

Equipped with Curtis controller and CAN-bus technology, making it easier for checking operation condition and troubleshooting.

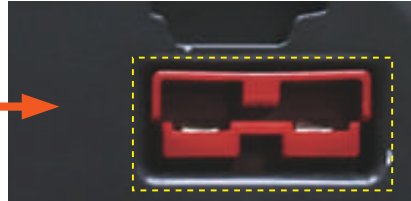


# Smart & Replaceable Batteries for Pallet Trucks

## Optional different battery capacities for various applications

The batteries of the Atom series are equipped with maintenance-free lithium iron phosphate batteries as standard, and its capacity can be selected according to different usage requirements.

Due to the fast charging and on-the-go characteristics of the lithium battery, the working time of the truck is significantly extended.



Smart battery positioning and lock for great fixation and safety

- ▶ The BMS function of the battery has been upgraded, which can protect more. Easier way to use, No charging sequence, Optimized battery switch.
- ▶ There are 8A and 12A external truck chargers to choose from, which is more convenient to charge.

**100%** Min. **2~3** hours | Excellent charge | Working Time



- ▼ Quick battery change, handle with long arm, cut off the power in time in abnormal situa-

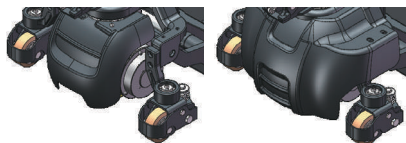
## Comparison of Lithium Battery & Lead-Acid battery

| Model                 | Lithium battery                                             | Lead-acid batteries                                                                                                               |
|-----------------------|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| Cycle life            | 2000~4000cycles                                             | 300~500cycles                                                                                                                     |
| Safe                  | Green and pollution-free                                    | corrosion, pollution                                                                                                              |
| Charging time         | <2h                                                         | Above 8h                                                                                                                          |
| Power conversion rate | Power conversion rate >97%                                  | Power conversion rate ≤80%                                                                                                        |
| Volume                | Small size: 2/3 of the volume of lead-acid batteries        | Big                                                                                                                               |
| Weight                | Light weight: 1/3~1/4 of lead-acid batteries                | heavy                                                                                                                             |
| Maintenance-free      | Maintenance free                                            | Distilled water or acid solution needs to be added regularly                                                                      |
| Powerful              | Stable voltage output, low self-weight, strong power        | The voltage in the first half is high, the voltage in the second half is low, and the power is attenuated when the voltage is low |
| Memory effect         | No memory effect, can be charged and discharged at any time | Has memory (affects battery life)                                                                                                 |

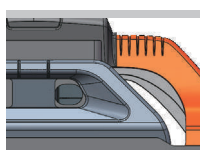
The form of the tail cover can be selected according to protection and pass-ability



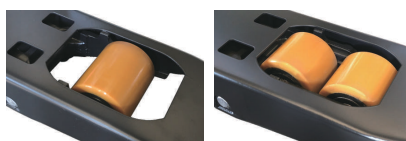
Steering wheels are optional



Introduction of battery anti-theft function



Wider load wheels



**ATOM**



## Type sheet for industrial truck acc. to VDI 2198

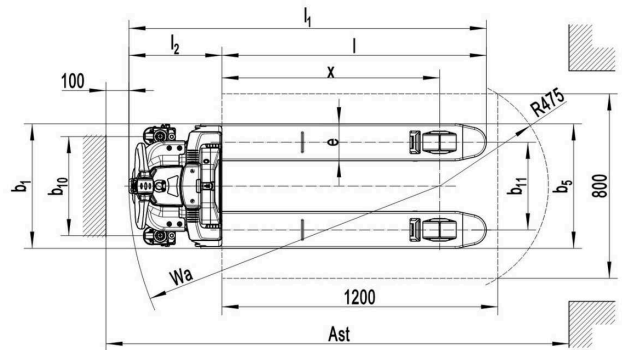
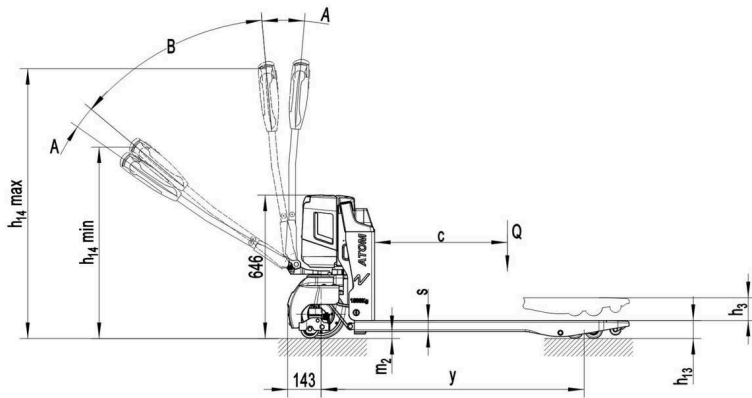
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| Distinguishing mark |                                                                      |            |                                           |          |             |          |                                           |          |             |          |
|---------------------|----------------------------------------------------------------------|------------|-------------------------------------------|----------|-------------|----------|-------------------------------------------|----------|-------------|----------|
| 1.2                 | Manufacturer's type designation                                      |            | PTE15Q2-A                                 |          | PTE20Q2-A   |          | PTE15Q2-B                                 |          | PTE20Q2-B   |          |
| 1.3                 | Drive: electric (battery type, mains, ...), diesel, petrol, fuel gas |            | Battery                                   |          |             |          | Battery                                   |          |             |          |
| 1.4                 | Operator type: hand, pedestrian, standing, seated, order-picker      |            | Pedestrian                                |          |             |          | Pedestrian                                |          |             |          |
| 1.5                 | Rated capacity/ rated load                                           | Q (t)      | 1.5                                       |          | 2.0         |          | 1.5                                       |          | 2.0         |          |
| 1.6                 | Load centre distance                                                 | c (mm)     | 600                                       |          |             |          | 600                                       |          |             |          |
| 1.8                 | Load distance, centre of drive axle to fork                          | x (mm)     | 947                                       |          |             |          | 947                                       |          |             |          |
| 1.9                 | Wheelbase                                                            | y (mm)     | 1189                                      |          |             |          | 1189                                      |          |             |          |
| Weight              |                                                                      |            |                                           |          |             |          |                                           |          |             |          |
| 2.1                 | Service weight                                                       | kg         | 121                                       | 125      | 130         | 133      | 121                                       | 125      | 130         | 133      |
| 2.2                 | Axle loading, laden front/ rear                                      | kg         | 621/1000                                  | 610/1015 | 660/1470    | 650/1483 | 621/1000                                  | 610/1015 | 660/1470    | 650/1483 |
| 2.3                 | Axle loading, unladen front/ rear                                    | kg         | 90/31                                     | 95/30    | 99/31       | 100/33   | 90/31                                     | 95/30    | 99/31       | 100/33   |
| Tyres, chassis      |                                                                      |            |                                           |          |             |          |                                           |          |             |          |
| 3.1                 | Tires                                                                |            | Polyurethane (PU)                         |          |             |          | Polyurethane (PU)                         |          |             |          |
| 3.2                 | Tire size, front                                                     | Øxw (mm)   | Ø 220×75                                  |          |             |          | Ø 220×75                                  |          |             |          |
| 3.3                 | Tire size, rear                                                      | Øxw (mm)   | Ø74×93 <sup>1)</sup> / Ø 80×70 ( Ø 80×93) |          |             |          | Ø74×93 <sup>1)</sup> / Ø 80×70 ( Ø 80×93) |          |             |          |
| 3.4                 | Additional wheels (dimensions)                                       | Øxw (mm)   | -/Ø 80×30                                 |          |             |          | -/Ø 80×30                                 |          |             |          |
| 3.5                 | Wheels, number front/ rear(x=driven wheels)                          |            | 1x/ 2(1x/ 4) or 1x +2/ 2(1x +2/ 4)        |          |             |          | 1x/ 2(1x/ 4) or 1x +2/ 2(1x +2/ 4)        |          |             |          |
| 3.6                 | Tread, front                                                         | b10 (mm)   | -/430                                     |          |             |          | -/430                                     |          |             |          |
| 3.7                 | Tread, rear                                                          | b11 (mm)   | 380                                       | 525      | 380         | 525      | 380                                       | 525      | 380         | 525      |
| Dimensions          |                                                                      |            |                                           |          |             |          |                                           |          |             |          |
| 4.4                 | Lift                                                                 | h3 (mm)    | 115                                       |          |             |          | 115                                       |          |             |          |
| 4.9                 | Height drawbar in driving position min./ max.                        | h14 (mm)   | 715 / 1125                                |          |             |          | 715 / 1125                                |          |             |          |
| 4.15                | Height, lowered                                                      | h13 (mm)   | 75 <sup>2)</sup> /80                      |          |             |          | 75 <sup>2)</sup> /80                      |          |             |          |
| 4.19                | Overall length                                                       | l1 (mm)    | 1530                                      |          |             |          | 1538                                      |          |             |          |
| 4.20                | Length to face of forks                                              | l2 (mm)    | 380                                       |          |             |          | 388                                       |          |             |          |
| 4.21                | Overall width                                                        | b1 (mm)    | 540                                       | 685      | 540         | 685      | 540                                       | 685      | 540         | 685      |
| 4.22                | Fork dimensions DIN ISO 2331                                         | s/e/l (mm) | 50 / 160 / 1150                           |          |             |          | 50 / 160 / 1150                           |          |             |          |
| 4.25                | Fork spread                                                          | b5 (mm)    | 540                                       | 685      | 540         | 685      | 540                                       | 685      | 540         | 685      |
| 4.32                | Ground clearance, centre of wheelbase                                | m2 (mm)    | 25 <sup>3)</sup> /30                      |          |             |          | 25 <sup>3)</sup> /30                      |          |             |          |
| 4.34                | Aisle width predetermined load dimensions                            | Ast (mm)   | 2005                                      |          |             |          | 2013                                      |          |             |          |
| 4.35                | Turning radius                                                       | Wa (mm)    | 1332                                      |          |             |          | 1340                                      |          |             |          |
| Performance         |                                                                      |            |                                           |          |             |          |                                           |          |             |          |
| 5.1                 | Travel speed, laden/ unladen                                         | km/h       | 4.4/4.9                                   |          | 4.9/4.9     |          | 4.4/4.9                                   |          | 4.9/4.9     |          |
| 5.2                 | Lift speed, laden/ unladen                                           | m/s        | 0.015/0.022                               |          | 0.015/0.019 |          | 0.015/0.022                               |          | 0.015/0.019 |          |
| 5.3                 | Lowering speed, laden/ unladen                                       | m/s        | 0.05 / 0.04                               |          | 0.052/0.023 |          | 0.05 / 0.04                               |          | 0.052/0.023 |          |
| 5.8                 | Max. gradeability, laden/ unladen                                    | %          | 6/16                                      |          | 7/16        |          | 6/16                                      |          | 7/16        |          |
| 5.10                | Service brake                                                        |            | Electromagnetic                           |          |             |          | Electromagnetic                           |          |             |          |
| Electric- engine    |                                                                      |            |                                           |          |             |          |                                           |          |             |          |
| 6.1                 | Drive motor rating S2 60min                                          | kW         | 0.75                                      |          | 1.0         |          | 0.75                                      |          | 1.0         |          |
| 6.2                 | Lift motor rating at S3 10%                                          | kW         | 0.50                                      |          | 0.8         |          | 0.50                                      |          | 0.8         |          |
| 6.3                 | Battery acc. to DIN 43531/35/36 A, B, C, no                          |            | No                                        |          |             |          | No                                        |          |             |          |
| 6.4                 | Battery voltage/ nominal capacity K5                                 | V / Ah     | 24/20; 24/30; 24/50                       |          | 48/20       |          | 24/20; 24/40                              |          | 48/20       |          |
| 6.5                 | Battery weight                                                       | kg         | 6.3                                       |          | 8.1         |          | 5.8                                       |          | 8.1         |          |
| 6.6                 | Energy consumption acc. to DIN EN 16796                              | kWh/h      | 0.17                                      |          | 0.25        |          | 0.17                                      |          | 0.25        |          |
| Addition data       |                                                                      |            |                                           |          |             |          |                                           |          |             |          |
| 8.1                 | Type of drive unit                                                   |            | DC                                        |          |             |          | DC                                        |          |             |          |
| 8.4                 | Sound pressure level at driver's seat                                | dB(A)      | <70                                       |          |             |          | <70                                       |          |             |          |

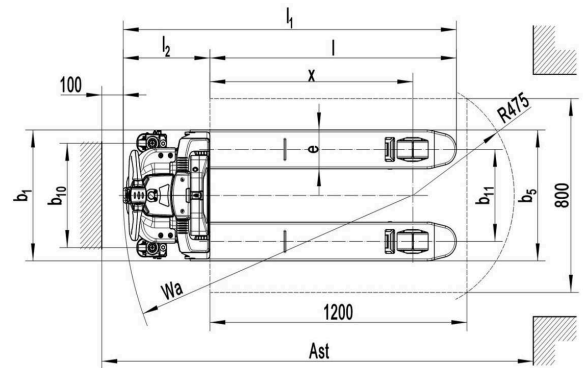
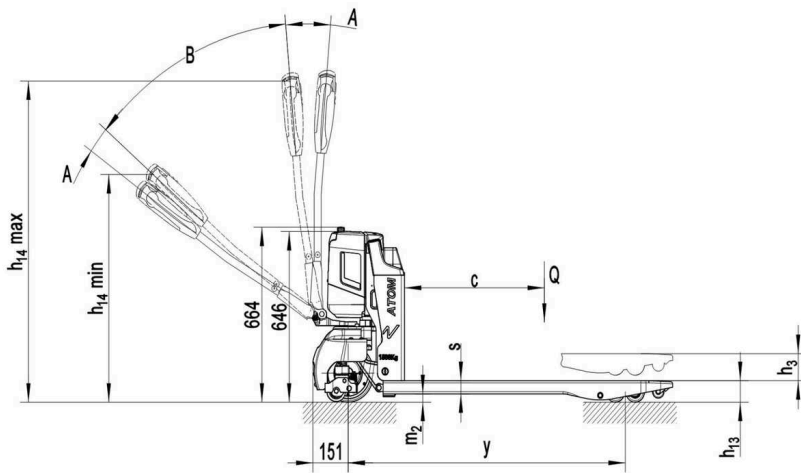
Note: 1) For truck equipped with this load roller, h13 is 75mm; 2) Here indicates that the truck is equipped with single load roller;

3) When h13 is 75mm, then m2 is 25mm.

## PTE15-20Q2-A



## PTE15-20Q2-B



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