

**NOBLELIFT**

[www.noblelift.cz](http://www.noblelift.cz)

# Avant

**Lithium Powered Pallet Truck**



**NEW** *Noblelift Products*  
**ARRIVAL**



NOBLELIFT INTELLIGENT EQUIPMENT CO., LTD.

## Brief Introduction of Avant

The inspiration for Avant comes from the PT16/20L series, which has a decade of successful market experience in heavy-duty models. It inherits the classic enclosed box-type design, featuring a more robust structure, higher waterproof and dustproof ratings, along with strong power. At the same time, it possesses the lightness and flexibility of a small material-handling vehicle, capable of efficiently working in various narrow spaces such as supermarkets, warehouses, logistics centers, sorting centers, truck compartments, containers, and freight elevators.





## Delivery application

Optimized vehicle dimensions and self-weight make it convenient to use inside trucks and elevators, occupying less cargo weight and space.

(optional) 24V 8A truck charger available for charging between delivery operations.



(Optional) charger

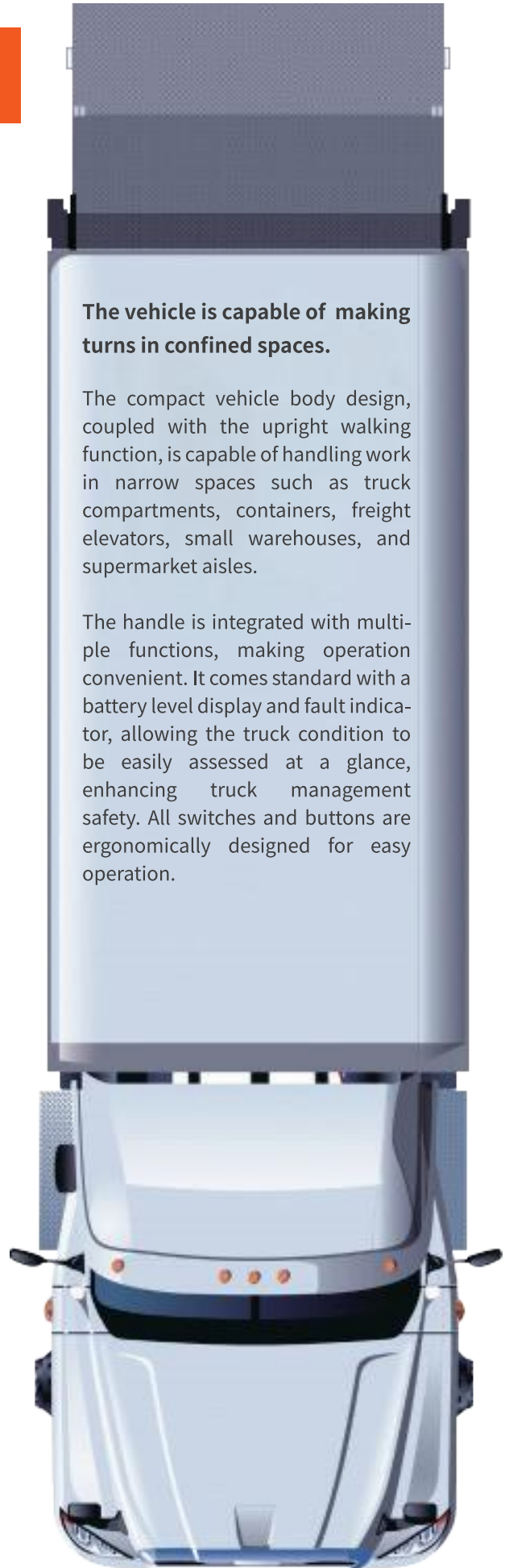
## Small turning radius



**The vehicle is capable of making turns in confined spaces.**

The compact vehicle body design, coupled with the upright walking function, is capable of handling work in narrow spaces such as truck compartments, containers, freight elevators, small warehouses, and supermarket aisles.

The handle is integrated with multiple functions, making operation convenient. It comes standard with a battery level display and fault indicator, allowing the truck condition to be easily assessed at a glance, enhancing truck management safety. All switches and buttons are ergonomically designed for easy operation.





## Brake overriding mode

Press and hold the lowering button and the turtle-speed switch on the handle for 7 seconds, and the brake will be released. This allows you manually pull the truck for its relocation.

 The brake release is for forced relocation only and must not be used for regular operation.



## Performance & Strength

The enclosed body structure provides excellent protection for the main components while ensuring the comfort of maintenance.



Forks feature a unique structural design that allows for quick entry and exit from pallets. The leg plates are designed with an integrated stamping process, maximizing the strength of the forks.



Avant is equipped with a 24V DC permanent magnet motor and large-diameter drive wheel, offering strong obstacle-overcoming capabilities.



**The classic enclosed box-type design ensures a more robust structure with higher waterproof and dustproof ratings.**

### High-strength frame design

High-strength and compact frame design ensures truck's robustness.

With a larger climbing angle, capable of reaching up to 6% even when fully loaded, the vehicle can be easily operated on leveling platforms and in various other delivery environments.

## Green energy & Easy maintenance

### Optional different Battery Capacities for applications

Avant comes standard with maintenance-free lithium iron phosphate batteries, equipped with an integrated BMS (Battery Management System) that ensures intelligent battery control and maximizes performance.

#### PWB-150



24V/20Ah

24V/40Ah

24V/60Ah

#### PWB-200



48V/10Ah

48V/20Ah



An external programming port makes parameter adjustments and overall vehicle maintenance more convenient and efficient.



The hydraulic system is highly integrated with the electrical system, facilitating easy installation and maintenance.



One-piece steel battery cover for perfect protection



The steel battery cover can be easily opened allowing quick battery replacement.



## Identification

|     |                                             |        |            |            |
|-----|---------------------------------------------|--------|------------|------------|
| 1.2 | Manufacturer's type designation             |        | PWB-150    | PWB-200    |
| 1.3 | Drive                                       |        | Battery    | Battery    |
| 1.4 | Operator type                               |        | Pedestrian | Pedestrian |
| 1.5 | Load Capacity / rated load                  | Q (t)  | 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       |

## Weights

|     |                                  |    |          |          |          |          |
|-----|----------------------------------|----|----------|----------|----------|----------|
| 2.1 | Service weight                   | kg | 121      | 130      | 123      | 133      |
| 2.2 | Axle loading, laden front rear   | kg | 520/1110 | 525/1115 | 525/1114 | 528/1120 |
| 2.3 | Axle loading, unladen front rear | kg | 99/31    | 108/32   | 107/32   | 114/34   |

## Wheels, Chassis

|     |                                           |           |                              |                              |
|-----|-------------------------------------------|-----------|------------------------------|------------------------------|
| 3.1 | Tires                                     |           | PU                           | PU                           |
| 3.2 | Tire size,front                           | Øx w (mm) | Ø210×75                      | Ø210×75                      |
| 3.3 | Tire size,rear                            | Øx w (mm) | Ø 80×60 ( 80×83)             | Ø 80×60 ( 80×83)             |
| 3.4 | Wheels,number front/rear(x=driven wheels) |           | 1x/ 2(1x/ 4)                 | 1x: 2(1x: 4)                 |
| 3.7 | Tread, rear                               | b11 (mm)  | 380                      525 | 380                      525 |

## Basic Dimensions

|      |                                                                 |            |                          |                          |
|------|-----------------------------------------------------------------|------------|--------------------------|--------------------------|
| 4.4  | Lift                                                            | h3 (mm)    | 115                      | 115                      |
| 4.9  | Height of tiller in drive position min./ max.                   | h14 (mm)   | 630 / 1230               | 630 / 1230               |
| 4.15 | Height, lowered                                                 | h13 (mm)   | 80                       | 80                       |
| 4.19 | Overall length                                                  | l1 (mm)    | 1530                     | 1530                     |
| 4.20 | Length to face of forks                                         | l2 (mm)    | 380                      | 380                      |
| 4.21 | Overall width                                                   | b1 (mm)    | 540                  685 | 540                  685 |
| 4.22 | Fork dimensions                                                 | s/e l (mm) | 50 / 160    1150         | 50 / 160 / 1150          |
| 4.25 | Width across forks                                              | b5 (mm)    | 540                  685 | 540                  685 |
| 4.32 | Ground clearance, centre of wheelbase                           | m2 (mm)    | 30                       | 30                       |
| 4.34 | Aisle width for pallets800X1200 lengthways(200mm safe distance) | Ast (mm)   | 2005                     | 2005                     |
| 4.35 | Turning radius                                                  | Wa (mm)    | 1332                     | 1332                     |

## Performance Data

|      |                                    |      |                 |                 |
|------|------------------------------------|------|-----------------|-----------------|
| 5.1  | Travel speed, laden / unladen      | km/h | 4.0/4.4         | 4.0/4.4         |
| 5.2  | Lift speed, laden / unladen        | m/s  | 0.016/0.021     | 0.015/0.020     |
| 5.3  | Lowering speed, laden / unladen    | m/s  | 0.05/0.026      | 0.05/0.024      |
| 5.8  | Max. gradeability, laden / unladen | %    | 6/20            | 7/20            |
| 5.10 | Service brake                      |      | Electromagnetic | Electromagnetic |

## E-Motor

|     |                                               |        |                     |         |
|-----|-----------------------------------------------|--------|---------------------|---------|
| 6.1 | Drive motor rating S2 60min                   | kW     | 0.75                | 1.0     |
| 6.2 | Lift motor rating at S3 10%                   | kW     | 0.5                 | 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(24/40; 24/60) | 48 / 20 |
| 6.5 | Battery weight                                | kg     | 5.9                 | 6       |
| 6.6 | Energy consumption acc. to VDI cycle          | kWh/h  | 0.188               | 0.264   |

## Other Details

|     |                                              |        |                  |                  |
|-----|----------------------------------------------|--------|------------------|------------------|
| 8.1 | Type of drive control                        |        | DC speed Control | DC speed Control |
| 8.4 | Sound level at driver's ear acc. to EN 12053 | dB (A) | <70              | <70              |

