# PT20D

## INTRODUCTION

The PT20D series is a multi-functional truck when it comes to the handing of materials by combining the features of a pedestrian pallet truck and stacker in one truck.
It handles not only the transporting of the goods horizontally but also handles loading and unloading HGVs(Heavy goods vehicle) and stacking of pallets with max. lift height up to 2500mm, what's more, with its double lifting function, it is able to lift two Euro pallets at the same time. All operations can therefore be performed twice as quickly in comparison with a traditional pedestrian pallet truck or stacker. The PT20D can carry 2000kg when used as a pallet truck, 1000kg with the forks raised or 2x1000kg in double-deck operation.


## ADVANTAGE:

- Power pallet truck with additional health-friendly mast lift.
- AC drive system
- Long tiller for easy and eronomic operations
- Double-lift with max. lift height up to 1600/2000/2500mm
- Core components from top quality brands
- Proportional lifting and lowering for accurate control of lift heights






## CAN-BUS

Long tiller design

Ergonomically designed long tiller allows comfortable and efficient operation, and at the same time safety for the operator by keeping a safe distance.

Sideway battery exchange

Standard powerful 210Ah battery with battery sideway battery replacement for easy battery replacement, maintenance and multi-shift operation.


Double lifting design

With its double lifting function, the efficiency is doubled than the traditional pedestrian pallet truck or stacker. The raising support arms with bigger ground clearance also contribute to safe travel, for instance on thresholds, ramps and uneven floors. And with its low overall height,it comes with excellent view of operation.

Robust and reliable design

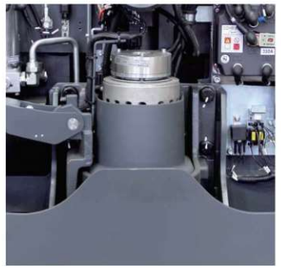
The robust chassis with the strong 8mm thick apron protects the truck and the components against mechanical impacts from the outside. The steel battery cover ensures the battery well protected.


Side switch

The standard equipped sideways located lifting and lowering buttons makes the ligting and lowering of the goods much easier and safer when the operator need to monitor the height closely from the side.

Convenient Maintenance

To easier the maintenance has been considered during the vehicle design and parts selection. For example, all the parts to be within arms reach after removing the encloser which fixed by one piece of screw only, and the Driving Whieels and Steering Wheel could be changed easily and no need to hoist the whole vehicle.



Core Components from top Quality Brands

German KORDEL gear box, INTORQ Brake,WICK drive wheel, Italian ZAPI Controller ensure the high performance, efficiency and stability, at the same time reduce the running cost.

Static design of the hydraulic system

There is no movement of the hydraulic systems during lifting and lowering of the truck, ensures the stability and safety of the hydraulic system.

## Electronic proportional lifting and lowering

The electronically controlled proportional lifting system ensures accurate positioning and stacking operations at every lifting height.

In specific with high masts the electronic controlled proportional lifting performs at its best.


**PT20D**

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

| | | | | | | |
|---|---|---|---|---|---|---|
| **Distinguishing mark** | 1.2 | Manufacturer`s type designation | | PT20D | | |
| | 1.3 | Drive | | Battery | | |
| | 1.4 | Operator type | | Pedestrian | | |
| | | Load Capacity / rated load | | 2.0 | | |
| | 1.5 | Load Capacity / at mast lift | Q (t) | 1.0[1)] | | |
| | | Load Capacity / at support arm lift | | 2.0[1)] | | |
| | 1.6 | Load centre distance | c (mm) | 600 | | |
| | 1.8 | Load distance ,centre of drive axle to fork | x (mm) | 916 | | |
| | 1.9 | Wheelbase | y (mm) | 1532 | | |
| **Weight** | 2.1 | Service weight | kg | 990 | 1010 | 1060 |
| | 2.2 | Axle loading, laden front/rear | kg | 880/2110 | 890/2120 | 925/2135 |
| | 2.3 | Axle loading, unladen front/rear | kg | 648/342 | 658/352 | 965/365 |
| **Tires, chassis** | 3.1 | Tires | | Polyurethane (PU) | | |
| | 3.2 | Tire size,front | Øx w (mm) | Ø230×70 | | |
| | 3.3 | Tire size,rear | Øx w (mm) | Ø80×70 | | |
| | 3.4 | Additional wheels(dimensions) | Øx w (mm) | Ø100×40 | | |
| | 3.5 | Wheels,number front/rear(x=driven wheels) | | 1x+2/4 | | |
| | 3.6 | Tread, front | $b_{10}$ (mm) | 510 | | |
| | 3.7 | Tread, rear | $b_{11}$ (mm) | 380 | | |
| **Dimensions** | 4.2 | Lowered mast height | $h_1$ (mm) | 1178 | 1378 | 1233 |
| | 4.4 | Lift | $h_3$ (mm) | 1400 | 1800 | 2300 |
| | 4.5 | Extended maximal height | $h_4$ (mm) | 2808 | 3408 | 3678 |
| | 4.6 | Initial lift | $h_5$ (mm) | | 120 | |
| | 4.9 | Height of tiller in drive position min./ max. | $h_{14}$ (mm) | | 800/1335 | |
| | 4.15 | Height, lowered | $h_{13}$ (mm) | | 88 | |
| | 4.19 | Overall length | $l_1$ (mm) | 1940 | | 1955 |
| | 4.20 | Length to face of forks | $l_2$ (mm) | 790 | | 805 |
| | 4.21 | Overall width | $b_1$ (mm) | | 729 | |
| | 4.22 | Fork dimensions | s/e/l (mm) | | 60/180/1150 | |
| | 4.25 | Width across forks | $b_5$ (mm) | | 560/530 | |
| | 4.32 | Ground clearance, centre of wheelbase | $m_2$ (mm) | | 28 | |
| | 4.34 | Aisle width for pallets1000X1200 crossways | Ast (mm) | 2140 | | 2155 |
| | 4.34 | Aisle width for pallets800X1200 lengthways | Ast (mm) | 2190 | | 2205 |
| | 4.35 | Turning radius | Wa (mm) | | 1682 | |
| **Performance data** | 5.1 | Travel speed, laden/ unladen | km/h | | 6.0/6.0 | |
| | 5.2 | Lift speed, laden/ unladen | m/s | | 85/140 | |
| | 5.3 | Lowering speed, laden/ unladen | m/s | | 80/65 | |
| | 5.8 | Max. gradeability, laden/ unladen | % | | 8/20 | |
| | 5.10 | Service brake | | | Electromagnetic | |
| **Electric- engine** | 6.1 | Drive motor rating S2 60min | kW | | 1.3 | |
| | 6.2 | Lift motor rating at S3 10% | kW | | 2.2 | |
| | 6.3 | Battery acc. to DIN 43531/ 35/ 36 A, B, C, no | | | 3VBS | |
| | 6.4 | Battery voltage, nominal capacity K5 | V / Ah | | 24/210 | |
| | 6.5 | Battery weight | kg | | 185 | |
| | 6.6 | Energy consumption acc. to VDI cycle | kWh/h | | 0.4 | |
| **Additional data** | 8.1 | Type of drive control | | | AC speed Control | |
| | 8.4 | Sound level at driver`s ear acc. to EN 12053 | dB(A) | | ＜70 | |

1)in double-deck operation:mast lift 1.0t,support arm lift 1.0t