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.













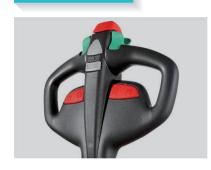




ADVANTAGES:

- 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 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 wheel, Italian ZAPI Controller ensure the high performance, and lowering of the truck, ensures the stability and safety of the hydraulic system.



Manufacturer's type designation PT200	Турс	e sheet for industrial truck acc. to	D VDI 2198 1KG=2.	2LB 1INCH=25.4N	IM	
1.2 Manufacturer's type designation F720D Batter's						
1-3					PT20D	
1-1 Clear Capacity stratal field						
Load Cargacity / state lift					-	
1.5 Lead Capacity / at most lift						
Load Capacity of support am lift	1.5					
1.6. I cand centre distance centre of drive asle to fork x (mm) 916 1.8. I cand distance centre of drive asle to fork x (mm) 916 1.9. Velocities weight y (mm) 15322 Velocities weight kg 900 1010 1060 2.2. Acte leading, trolled rinorthear kg 892110 8902120 9257135 2.3. Acte leading, trolled rinorthear kg 648742 658332 9057465 3.1 Tire size, front Ox w (mm) 0259-70 100-40 3.2 Tire size, front Ox w (mm) 080-70 100-40 3.4 Additional wheel differentions on So Ox w (mm) 1010-40 100-40 3.5 Tread, front B10 (mm) 510 110-24 3.6 Tread, front B10 (mm) 118-24 3.6 Tread, front B10 (mm) 118 137 4.2 Lin Abovered mast height M(mm) 118 138 1233 4.5 Exceeded mast height M(mm) 128 2028 3475 4.6 I faital lift Ab(mm) 223 2028 <td>1.5</td> <td></td> <td></td> <td></td> <td></td> <td></td>	1.5					
1.8. Load distance centre of drive axile to fork x (mm) 916 1.0. Wheelbase y(mm) 1532 Weelpales y(mm) 1532 Service weight kg 900 1010 1000 2.2. Axic loading, laden frontrear kg 648/342 658/352 055/355 Wheel's: Chassis Service weight Chessis Polyurelnane (PC) 3.2. Tire size, front Ox w (mm) 0230 +70	 1 6					
Winch Winc						
Netrice Service weight						
			y (mm)		1532	_
2.2 Ake leading, unladen frontrear kg 689.21 809.210 925.2135 2.3 Ake leading, unladen frontrear kg 648.542 688.52 053.65 3.1 Tires Polymethan (PU) 1 3.2 Tire size, fron Ox w (mm) 020-07 3 3.3 Tire size, fron Ox w (mm) 0100-40 3 3.5 Segara Ox w (mm) 0100-40 3 3.5 Weels, number frontrearty-driven wheels) b10 (mm) 1 (m) 510 3.7 Tread, crac b10 (mm) 1100 380 200 3.7 Tread, crac b11 (mm) 1400 1800 200 4.4 Lift h3 (mm) 1400 1800 200 4.4 Lift h3 (mm) 1400 1800 200 4.5 Extended maximal height h4 (mm) 2528 2928 3475 4.6 Initial lift h5 (mm) 11 (mm) 190 190 190 4.9 Policylife in front position min/ max h1 4 (mm) 1940 190 190 4.1 Sight, for peaced			kg	990	1010	1060
No.						
Wheels- Chassis 3.1 Times Polywerchane (PU) 3.2 Time size, front Øx w (mm) 6220-70 3.3 Time size, front Øx w (mm) 680-70 3.4 Additional wheels (dimensions) Øx w (mm) 5100-40 3.5 Wheels, number front/rear(x-driven wheels) 1510 (mm) 510 3.7 Tread, front 1510 (mm) 510 3.7 Tread, rear b11 (mm) 380 ***Timensions**********************************						
Tires			Kg	048/342	038/332	093/303
3.2 Time size, frient					Dolonyothono (DII)	
3.3 Tire size, rear Ox w (mm) Ø80×70 3.4 Additional wheels (dimensions) Ox w (mm) \$100×40 3.5 Wheels anumber (front rear(x=driven wheels)) 1 1x+2/4 3.6 Tread, foot b10 (mm) 510 3.7 Tread, rear b11 (mm) 380 Bast-Dimensions 4.2 Lower dars theight h1 (mm) 1400 1800 230 4.4 Lift h3 (mm) 1400 1800 230 4.5 Extended maximal height h4 (mm) 2528 2928 3475 4.5 Extended maximal height h1 (mm) 2528 2928 3475 4.5 Extended maximal height h5 (mm) 2520 3475 4.5 Extended maximal height h5 (mm) 2520 3475 4.5 Biglight of tiller in drive position min./ max. h14 (mm) 2528 2928 3475 4.1 Beight, lowered h13 (mm) 88 192 1955 4.1 Overall width b1 (mm) 1940 1935 4.2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
3.4 Additional wheels(dimensions) Ox w (mm) O100-40 3.5 Wheels,number front/reartx-driven wheels) 1x²-24 3.6 Tread, front b10 (mm) 380 3.7 Tread, froat b11 (mm) 380 Basic Dimensions 4.2 Lowered mast height h1(mm) 1400 1800 2300 4.5 Extended maximal height h4(mm) 2528 2928 3475 4.6 nitral lift h5(mm) 120 100 4.9 Height of tiller in drive position min/ max. h14 (mm) 8201335 11 4.15 Hight of tiller in drive position min/ max. h14 (mm) 1940 1955 4.15 Height of tiller in drive position min/ max. h14 (mm) 1940 1955 4.15 Height of tiller in drive position min/ max. h14 (mm) 1940 1955 4.17 Height of tiller in drive position min/ max. h14 (mm) 1940 1955 4.19 Overall length 11 (mm) 1940 1955 4.19 Overall length 11 (mm) 790 1955 <td></td> <td></td> <td>+</td> <td></td> <td></td> <td></td>			+			
3.5 Wheels, number front/rear(x=driven wheels) 150 (mm) 510 3.6 Tread, front b10 (mm) 510 3.7 Tread, front b10 (mm) 380 Fread, rear b11 (mm) 380 ***Tread, rear b11 (mm) 1178 1378 1233 4.4 Lift h3 (mm) 1400 1800 2300 4.5 Extended maximal height h4 (mm) 2528 2928 3475 4.6 mital lift h5 (mm) 120 ************************************						
1. Freed, front 1. Freed,						
1						
Basic Dimemsions						
Lowered mast height h1(mm) 1178 1378 1233 4.4 Lift			b11 (mm)		380	
			h-1()	1170	1279	1222
1						
Height of tiller in drive position min/max. h14 (mm) 820/1335 Height, lowered h13 (mm) 88 Height, lowered h13 (mm) 1940 1955 Lower of the face of forks 12 (mm) 790 Length to face of face of forks 12 (mm) 790 Length to face of face of face of				2528		3475
Height, lowered h13 (mm) 88						
11 (mm) 1940 1955 4.20 Length to face of forks 12 (mm) 790 4.21 Overall width b1 (mm) 729 4.22 Fork dimensions \$\sigma^{\chi}(\text{Imm}) 60/180/1150 4.25 Width across forks b5 (mm) 560/530 4.32 Ground clearance, centre of wheelbase m2 (mm) 28 4.33 Aisle width for pallets 1000X1200 crossways A3 (mm) 2040 2155 4.34 Aisle width for pallets 800X1200 lengthways A3 (mm) 2190 2205 4.35 Turning radius Wa (mm) 1682 Performance Data	4.9	Height of tiller in drive position min./ max.	h14 (mm)		820/1335	
Length to face of forks 12 (mm) 790 4.21 Overall width b1 (mm) 729 4.22 Fork dimensions SeP (mm) 60/180/1150 4.25 Width across forks b5 (mm) 560/530 4.26 Width across forks b5 (mm) 28 4.33 Aisle width for pallets 1000X1200 crossways Ast (mm) 2040 2155 4.34 Aisle width for pallets 800X1200 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 mm/s 85/140 5.3 Lowering speed, laden/ unladen mm/s 88/65 5.8 Max. gradeability, laden/ unladen mm/s 820 5.10 Service brake Electromagnetic E-Wotor 6.1 Drive motor rating \$2 60min kW 1.3 6.2 Lift motor rating at \$3 10% kW 2.2 6.3 Battery acc. to DIN 43531/35/36 A, B, C, no 3VBS 6.4 Battery voltage, nominal capacity KS V/Ah 24/210 6.5 Battery weight kg 185 6.6 Energy consumption acc. to VDI cycle kWh/h 1.0 Other Details 8.1 Type of drive control AC Speed Control	4.15	Height, lowered	h13 (mm)			
A21 Overall width bl (mm) 729 A22 Fork dimensions SeP (1mm) 60/180/1150 A25 Width across forks b5 (mm) 560/530 A32 Ground clearance, centre of wheelbase m2 (mm) 28 A33 Aisle width for pallets1000X1200 crossways Ast (mm) 2040 2155 A34 Aisle width for pallets800X1200 lengthways Ast (mm) 2190 2205 A35 Turning radius Wa (mm) 1682 Performance Data	4.19	Overall length	11 (mm)	1940		1955
4.22 Fork dimensions \$\(\sigmin\) (60/180/1150 4.25 Width across forks b5 (mm) 560/530 4.32 Ground clearance, centre of wheelbase m2 (mm) 28 4.33 Aisle width for pallets 1000X1200 crossways Ast (mm) 2040 2155 4.34 Aisle width for pallets 800X1200 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 mm/s 85/140 5.3 Lowering speed, laden/ unladen mm/s 80/65 5.8 Max. gradeability, laden/ unladen % 8/20 5.10 Service brake Electromagnetic E-Motor E-Motor 6.1 Drive motor rating \$2 60min kW 1.3 6.2 Lift motor rating at \$3 10% kW 2.2 6.3 Battery weight kg 185 6.6 Energy consumption acc. to VDI cycle kWh/h 1.0 <td>4.20</td> <td>Length to face of forks</td> <td>12 (mm)</td> <td></td> <td>790</td> <td></td>	4.20	Length to face of forks	12 (mm)		790	
4.25 Width across forks b5 (mm) 560/530 4.32 Ground clearance, centre of wheelbase m2 (mm) 28 4.33 Aisle width for pallets 1000X1200 crossways Ast (mm) 2040 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 mm/s 85/140 5.3 Lowering speed, laden/ unladen mm/s 80/65 5.8 Max. gradeability, laden/ unladen % 8/20 5.10 Service brake Electromagnetic E-Motor 6.1 Drive motor rating \$2.60min kW 1.3 6.2 Lift motor rating \$2.60min 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 1.0 Other Details 8.1 Type of drive control AC speed Control	4.21	Overall width	b1 (mm)		729	
A32 Ground clearance, centre of wheelbase m2 (mm) 28	4.22	Fork dimensions	s/e/l (mm)		60/180/1150	
Asign Asig	4.25	Width across forks	b5 (mm)		560/530	
Ast Asile width for pallets800X1200 lengthways Ast (mm) 2190 2205	4.32	Ground clearance, centre of wheelbase	m2 (mm)		28	
No.	4.33	Aisle width for pallets1000X1200 crossways	Ast (mm)	2040		2155
Performance Data	4.34	Aisle width for pallets800X1200 lengthways	Ast (mm)	2190		2205
5.1 Travel speed, laden/ unladen km/h 6.0/6.0 5.2 Lift speed, laden/ unladen mm/s 85/140 5.3 Lowering speed, laden/ unladen mm/s 80/65 5.8 Max. gradeability, laden/ unladen % 8/20 5.10 Service brake Electromagnetic E-Motor 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 1.0 Other Details 8.1 Type of drive control AC speed Control	4.35	Turning radius	Wa (mm)		1682	
5.2 Lift speed, laden/ unladen mm/s 85/140 5.3 Lowering speed, laden/ unladen mm/s 80/65 5.8 Max. gradeability, laden/ unladen % 8/20 5.10 Service brake Electromagnetic E-Motor 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 1.0 Other Details 8.1 Type of drive control AC speed Control	Perf	ormance Data				
5.3 Lowering speed, laden/ unladen mm/s 80/65 5.8 Max. gradeability, laden/ unladen % 8/20 5.10 Service brake Electromagnetic E-Motor 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 1.0 Other Details 8.1 Type of drive control AC speed Control	5.1	Travel speed, laden/ unladen	km/h		6.0/6.0	
5.8 Max. gradeability, laden/ unladen % 8/20 5.10 Service brake Electromagnetic E-Motor 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 1.0 Other Details 8.1 Type of drive control AC speed Control	5.2	Lift speed, laden/ unladen	mm/s		85/140	
E-Motor kW 1.3 6.2 Lift motor rating st 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 1.0 Other Details 8.1 Type of drive control AC speed Control	5.3	Lowering speed, laden/ unladen	mm/s		80/65	
E-Motor 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 1.0 Other Details 8.1 Type of drive control AC speed Control	5.8	Max. gradeability, laden/ unladen	%		8/20	
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 1.0 Other Details 8.1 Type of drive control AC speed Control	5.10	Service brake			Electromagnetic	
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 1.0 Other Details 8.1 Type of drive control AC speed Control	Е-М	otor				
Battery acc. to DIN 43531/35/36 A, B, C, no Battery voltage, nominal capacity K5 V/Ah Substituting the second of the second o	6.1	Drive motor rating S2 60min	kW		1.3	
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 1.0 Other Details 8.1 Type of drive control AC speed Control	6.2	Lift motor rating at S3 10%	kW		2.2	
6.5 Battery weight kg 185 6.6 Energy consumption acc. to VDI cycle kWh/h 1.0 Other Details 8.1 Type of drive control AC speed Control	6.3	Battery acc. to DIN 43531/35/36 A, B, C, no			3VBS	
6.6 Energy consumption acc. to VDI cycle kWh/h 1.0 Other Details 8.1 Type of drive control AC speed Control	6.4	Battery voltage, nominal capacity K5	V / Ah		24/210	
6.6 Energy consumption acc. to VDI cycle kWh/h 1.0 Other Details 8.1 Type of drive control AC speed Control	6.5	Battery weight	kg		185	
Other Details 8.1 Type of drive control AC speed Control	6.6	Energy consumption acc. to VDI cycle			1.0	
8.1 Type of drive control AC speed Control	Othe					
8.4 Sound level at driver's ear acc. to EN 12053 dB(A)					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