



The EDGE Smart Design Pallet Trucks Family

Performance



• 1.2T Capacity Li-ion

PTE12N

- Perfect for light-duty applications.
- Compact & skeleton design
- Fast-charging Li-ion batteries.
- Ideal for occasional operations
- Easy-battery replacement
- High maneuverability



PTE15N

- 1.5T Capacity Li-ion
- Perfect for light-duty applications.
- Compact & sharp design
- Light service weight
- Fast-charging Li-ion batteries.
- Ideal for use on retail stores, lorries.
- Easy-battery replacement



PTE20B

- 2.0T Capacity AGM
- Economic solution for heavy loads move
- Simple but robust skeleton design
- Maintenance-free Lead-acid Battery Pack
- Ideal for industrial applications
- Fast battery replacement
- Powerful drive & pump system



PTE20N

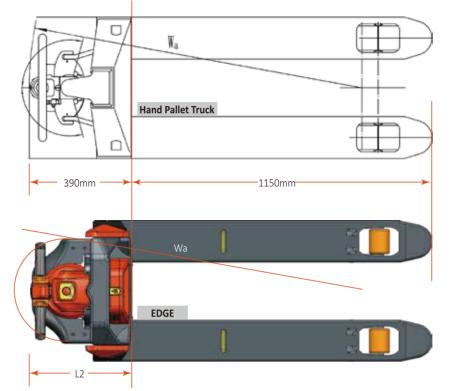
- 2.0T Capacity Li-ion
- Ultimate solution for heavy loads move
- Compact & robust design
- Fast-charging Li-ion batteries
- Easy-battery replacement
- Great grade-ability performance
- Powerful drive & pump system

Smart and Ergonomic Tillers

The Edge series trucks are configured with control tillers adopted to meet with application needs based on trucks designated performance.



Compact Design and Vertical Driving



Model	Body length (L2)	Turning Radius	Weight
PTE12N	387mm	1337mm	124kg
PTE15N	380mm	1330mm	123kg
PTE20N	386mm	1336mm	149kg
PTE20B	478mm	1428mm	175kg

RFID Card Access is Standard for PTE20N optional for all other models

RFID card provides faster access to equipment and ideal for applications when one truck needs to be used by different operators







The function of driving with tiller in the **vertical position** helps with work in confined areas, especially in elevators and lorries without



Smart & Replaceable Batteries for Pallet Trucks

The*PTE xxN trucks are equipped with maintenance-free Li-ion batteries, optional capacities for various applications are available, with its fast charging and opportunity charging features (charge whenever you want and as long as time allows) the operation time can be extended significantly.

All pallet trucks batteries are located in battery compartments securely, any possibility of movement is excluded, therefore the reliability of power supply is ensured.

*: xx=Capacity

Light weight of the battery(max. 8kg) and the easiest way of fast battery replacement allows even a female operator to double the working time within seconds. The light weight of the batteries can be achieved through use of Li-ion battery type with high ratio of energy density to its self-weight.

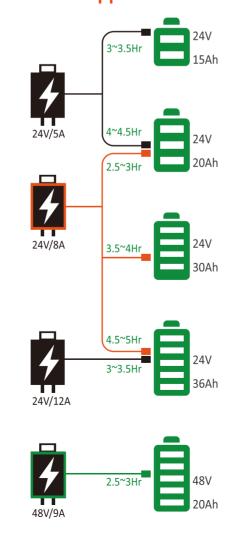




All Li-ion batteries are equipped with on-board Battery Management System (BMS), which provides mandatory control of all important parameters of the battery during charging and operation. With this control, the safety of Li-ion battery during the whole life-cycle is guaranteed. The Li-ion batteries are certified according to international safety transportation(by sea and by air) and operation standards. The BMS communicates with control system of the truck via CAN, the support of the CAN protocols allows to monitor the condition of the battery and make its diagnosis with help of special software which is available for our partners.

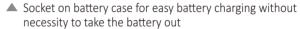


Optional different battery capacities from 20Ah to 36Ah for various applications



Manage your working time with selection of batteries and chargers





The *PTE xxN trucks remains unpowered while charger is connected with the battery charging socket even if the charger is disconnected from the power outlet, therefore, the safety is ensured and the possibility to damage the charger is excluded.

*: xx=Capacity



min. 2.5 hours | Excellent

working time



The positioning of the battery inside the battery compartment is fast and easy thanks to specially designed battery guiding system



▲ Battery cases for pallet trucks are made out of ABS PC material with 15% of glass



The PTE 20B truck is equipped with maintenance-free AGM battery pack, the charging time is 8 hours.

With the smart design, the battery pack can be replaced when it is necessary to double the operation time.



Gradeablity Performance & Robustness



The Edge series trucks have great performance on ramps even when they are fully loaded regardless their economic positioning, each truck based on its performance level can climb on sufficient level of ramp, therefore, every customer can select the truck with consideration of particular working environment.

Model	PTE12N	PTE15N	PTE20N	PTE20B
Max. grade ability laden	4%	6%	7%	5%
Max. grade ability unladen	16%	16%	16%	16%

The frame of truck is surrounded by stamped steel elements making the truck looking different and also ensuring the **protection** of components for PTE15N and PTE20N

Forks of the truck with shape for easy entrance and exit from pallets for PTE15N, PTE20B and

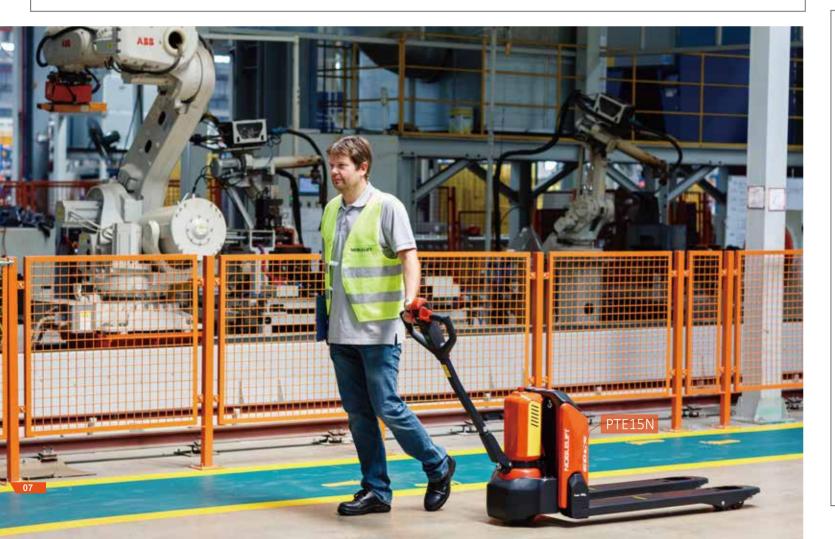
Full length double sided C-shape reinforcements of forks significantly increase strength and rigidity of frame.

Strong steel apron **protects** the operator's feet during work and secures the truck's components from collisions with objects.





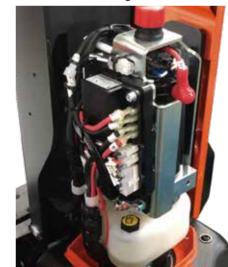






Maintenance Friendly

Drive motor with intelligent Curtis control





For the pallet trucks there are no hoses or pipes used in the hydraulic lifting circuit which significantly improves **reliability** and reduces the amount of potential problems related to leakages through connectors or their seals.

The trucks are equipped with **Curtis** controllers, **CAN-bus** technology makes the diagnostic and troubleshooting easier. The use of proved and certified components helps to ensure the conformity to international safety standards with all the supporting documents available as required by law.



apaci	tv		
apaci	Ready	Min Vo l t	Max Volt
	24.50V	0mV	0mV
17.6%	24.500	Avg Vo l t	Communicatio
	0.00A	0.0mV	Normal

Realtime —				
Rated Capacity 60.0	Ah	Wh(Current)	0.0	Wh Reset
Discharge Cycle		Discharge Cycl		Ineset
Times		Times		

Other —		
Name	Value	Units
Ce ll Temp1	25.3	C
Ce ll Temp1	25.1	C
SOC	45	1/255
Power Temp	27.1	C
Envir Temp	32.2	C
Cell Volt Alarm	none	
Total Volt Alarm	none	
Current Alarm	none	
Temp Alarm	none	
Balance Alarm	none	

	110116	
Volt —		
VOIL		
Name	Value	Units
Cell	3507	mV
Total	24.5	V
Current	0.0	A
Run(Wh)	0	Wh

Each battery can be diagnosed via CAN connection with help of special software tool, the software can provide information about the battery condition such as balance of cells, amount of charging/discharging cycles, current, energy consumption, temperature, charging/discharging parameters, voltage of every cell, faults and alarms, settings of timing for automatic turn off.

The **EDGE** Smart Design Pallet Stackers

PSE12B

• 1.2T Capacity AGM

• Perfect for light-duty applications.

- Compact & light service weight
- High maneuverability
- Maintenance-free Lead-acid Battery
- Integrated on-board 12A charger
- Ideal for use on mezzanines

PSE12N

- 1.2T Capacity Li-ion
- Perfect for light-duty applications.
- Compact & light service weight
- High maneuverability
- Fast-charging Li-ion batteries.
- Integrated on-board 25A charger
- Ideal for use on mezzanines
- Ultimate solution for light duty operations







Standard For PSE12B and PSE12N



On-board diagnostics via error codes



Emergency-reverse &Horn Buttons

Dual butterfly-style thumb driving controls

- Electric lifting and lowering

RFID Card Access is optional for PSE12B and standard for PSE12N

RFID card provides faster access to equipment and ideal for applications when one truck needs to be used by different operators



Vertical Driving in Confined Space



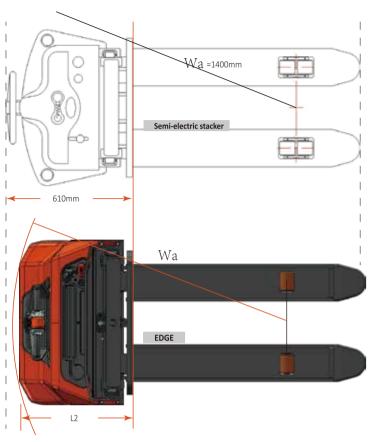
The function of driving with tiller in the **vertical position** helps with work in confined area without sacrificing of safety.

The tiller bar is supported by the air spring which helps to return the tiller to its vertical position without strike in the end point.

safety the trucks are equipped with speed reduction function in turns.



Smart Design with Compact Size and Perfect observation



Model	PSE12B	PSE12N
length(L2)	560mm	560mm
Turning Radius	1350mm	1350mm

Our engineers put a lot of efforts to achieve compactness of the trucks in comparison with traditionally used manual and semi-electric products without sacrificing of stability, robustness, safety and operation comfort.



Wide mast provides perfect observation of forks, the field of view is clear and not interrupted by mast sections, cylinder or chains.



The operator can always clearly see the forks which significantly increases safety of operation

Robustness

Gradeablity Performance







Tiller is made out of PA6 30% of glass fiber material, having high strength.

Capacity of 1200kg with high residual value at maximum height (load center distance 600 mm)

Real mast profiles are used for long life-time, no cheap bended solutions used. All directed to maintain performance of the truck during its life-cycle.







Maintenance Friendly

STANDARD CONFIGURATION & OPTIONS FOR EDGE FAMILY

Convenient and fast access to any component of the truck, no elements are located in areas difficult to reach. No Special tools are required.



┌ Capad	rity —			
Capac		Ready	Min Volt	Max Volt
17	6%	24.50V	0mV	0mV
17.	070	24.50 V	Avg Volt	Communication
۳		0.00A	0.0mV	Normal

- Realtime					
Realtime					_
Rated Capacity 60.0	Ah	Wh(Current)	0.0	Wh Reset	1
Discharge Cycle		Discharge Cyc	le		7
Times		Times			

Cother————		
Name	Value	Units
Cell Temp1	25.3	C
Cell Temp1	25.1	C
SOC	45	1/255
Power Temp	27.1	C
Envir Temp	32.2	C
Cell Volt Alarm	none	
Total Volt Alarm	none	
Current Alarm	none	
Temp Alarm	none	
Balance Alarm	none	

√Volt —					
Name	Value	Units			
Cell	3507	mV			
Total	24.5	V			
Current	0.0	Α			
Run(Wh)	0	Wh			

The software diagnostic tool for lithium batteries can provide full information about battery's condition and its current status. (The above values are for reference only.)

Battery Management System

CAN-bus

The BMS of battery controls charging and discharging parameters, working temperature, short circuits, has sleeping mode and is able to turn off the power in case of emergency. Communication with BMS and software adjustment is possible via CAN



The electric system is using CAN communication protocol increasing reliability of the system.



PSE12B

2x12 85Ah (5Hr) AGM maintenance free batteries are used.

Optionally available 2x12 106Ah (5Hr).



PSE12N

24V 60Ah Lithium LiFePO4 battery with BMS. Lithium battery has connection terminals with screws and located inside the steel case



For PSE12N the charger with current 25A is used
The standard charging time is 2.5 hours
Opportunity charging is supported

For PSE12B the charger

with current 12A is used

The standard charging

time is 7 hours

The PSE 12N stacker is equipped with maintenance-free 24V/60Ah LiFePO4 type Li-ion battery with fast charging and ultra-high number of charging /discharging cycles during life time; opportunity charging feature basically does not limit your operation time. The integrated BMS provides the same features as the BMS for the batteries of pallet trucks(refer to pallet truck section).

The on-board charger with 25A current can provide full charge for less than 2.5 hours with great efficiency.

The **PSE 12B** stacker is equipped with 2x12V 85Ah VRLA-AGM maintenance free batteries. Optionally available 2x12V 105Ah batteries for longer operation.

The stacker is equipped with 12A on-board charger. The charging time is 7-8 hours, opportunity charging is not available.



STANDARD PTE12N PTE15N PTE20N PTE20B PSE12B PSE12N **CONFIGURATION OR OPTIONS** Li—ion Li—ion Li—ion AGM AGM Li—ion Standard Battery 48V/20Ah 2x12V/85Ah 24V/15Ah 24V/20Ah 48V/20Ah 24V/60Ah Li-ion Battery 24V/20Ah 0 S 0 0 Li-ion Battery 24V/30Ah Li-ion Battery 24V/36Ah 0 0 Ο AGM 2x12V/106Ah (5 Hr) _ — _ Standard Charger 24V / 5A 24V / 5A 48V / 9A 48V / 3A 24V / 12A 24V / 25A Li-ion Charger 24V/5Ah S S with optional Li-ion Charger 24V/8Ah 0 battery only with 36Ah with 36Ah Li-ion Charger 24V/12Ah battery only battery only Curtis controller S BMS S S S S **CAN-communication** S S Speed Reduction at Turning S 0 0 S S S Vertical drive/Pin wheel Fast battery replacement S S S S Entry Roller S Single Fork Roller S S S S S S Tandem Fork Rollers 0 0 0 0 On-board charger S S Stability Castors 0 0 High traction drive wheel tyre 0 0 _ Fork length 800/900/1000mm 0 0 0 0 Fork width 370/550/570mm 0 _ Load backrest(42/48/60") 0 0 S Pin Code Access Ο S 0 S S **RFID Access** 0 0 S 0 0 LED Indicators on Tiller S

Various Options(Pallet Truck)



LCD Display on Tiller

Optional tandem fork rollers



Optional high traction drive wheel



S=Standard

0

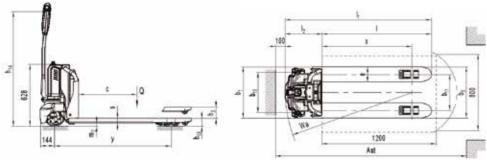
O=Optional

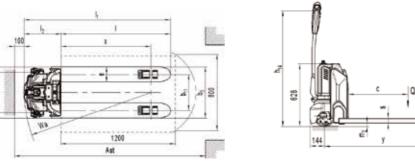
Optional Stability Casters



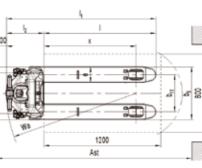
Optional backrest

— =not available





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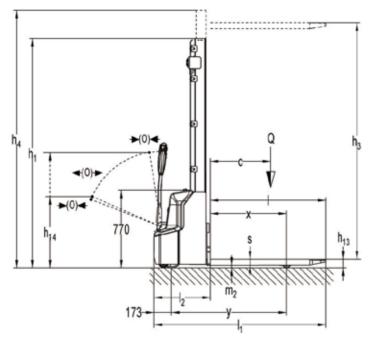


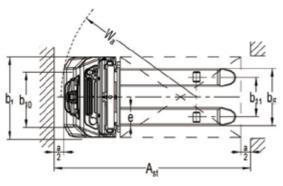
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		I+ ID	A 2 00
144 É y	- Mr	1280 Ast	

	Type sheet for industrial truck	acc. to VDI	2198	
Dist	inguishing mark			
1.2	Manufacturer's type designation		PT I	E12N
1.3	Drive		Bat	ttery
1.4	Operator type		Pede	strian
1.5	Load Capacity / rated load	Q(t)	1	.2
1.6	Load centre distance	c (mm)	6	00
1.8	Load distance, centre of drive axle to fork	x (mm)	9.	42
	Wheelbase	y (mm)	11	85
Vei	1			100
2.1 	Service weight	kg	124 	129
2.2	Axle loading, laden front/rear	kg ¦	355 / 972	425 / 908
	Axle loading, unladen front/rear	kg ¦	101 / 27	106 / 27
	es, chassis			
	Tires			hane (PU)
	Tire size, front	x w (mm)		0×70
	Tire size,rear	x w (mm)		(80×70)
	Additional wheels(dimensions)	x w (mm)		0×30
3.5 3.6	Wheels,number front/rear(x=driven wheels) Tread, front	b ₁₀ (mm)		$\frac{x+2}{2(1x+2/4)}$
	Tread, rear	$b_{10} \text{ (mm)}$	380	525
	ensions	0 ₁₁ (mm)	300	323
	¦Lift	h ₃ (mm)	1	15
 I.9	Height of tiller in drive position min./ max.	h ₁₄ (mm)	700 /	1160
	Height, lowered	h ₁₃ (mm)		80
	Overall length	1, (mm)	15	537
	Length to face of forks	l ₂ (mm)	3	87
	Overall width	b, (mm)	540	685
	Fork dimensions	s/e/l (mm)	48 / 16	0 / 1150
	Width across forks	-1	540	685
		b ₅ (mm)		
	Ground clearance, centre of wheelbase	m ₂ (mm)	3	32
1.34	Aisle width for pallets800X1200 lengthways (200mm safe distance)	Ast (mm)	20	007
	Turning radius	Wa (mm)	13	337
	formance Data	· · · · · · · · ·		
.1	Travel speed, laden/ unladen	km/h	4.6	/ 4.8
	Lift speed, laden/ unladen	m/s		/ 0.037
	Lowering speed, laden/ unladen	m/s		/ 0.051
	Max. gradeability, laden/ unladen			16
	Service brake			magnetic
	ctric- engine		Licetroi	magnetic
	Drive motor rating S2 60min	kW	0.	.65
 5.2	Lift motor rating at S3 10%	kW	0.	.50
	Battery acc. to DIN 43531/35/36 A, B, C, no	-i		No
		(<u>-</u>		
	Battery voltage, nominal capacity K5	V/Ah		/15
	Battery weight	kg		·.4
	Energy consumption acc. to VDI cycle	kWh/h	0.	.14
	ition Data			
3.1	Type of drive control	i 	DC spee	d Control
8.4	Sound level at driver's ear acc. to EN 12053	dB(A)	<	70

Type sheet for industrial truck			
Distinguishing mark		DT E15N	DT E20M
1.2 Manufacturer`stype designation		PT E15N	PT E20N
1.4 Operator type	Í – – – – – – I	Batt Pedes	
1.5 Load Capacity / rated load	Q (t)	1.5	2.0
1.6 Load centre distance	c (mm)	60	
1.8 Load distance ,centre of drive axle to fork	x (mm)	947	951
1.9 Wheelbase	y (mm)	1185	1189
Weight	[] (11111)		1107
2.1 Service weight	kg	123 126	149 153
2.2 ¦ Axle loading, laden front/rear	kg kg	623/1000 626/1000	621/1528 625/152
2.3 Axle loading, unladen front/rear	kg	96/27 99/27	115/34 119/34
Tyres, chassis	, e		
3.1 ¦Tires		Polyureth	ane (PU)
3.2 Tire size, front	x w (mm)		
3.3 Tire size,rear	x w (mm)		
3.4 Additional wheels(dimensions)	x w (mm)	80>	
3.5 Wheels, number front/rear(x=driven wheels)	1. ()	$\frac{1}{1} \frac{1x}{2(1x/4)} \text{ or } \frac{1x}{42}$	
3.6 Tread, front 3.7 Tread, rear	$b_{10} (mm)$	380 525	380 525
Dimensions	1 0 ₁₁ (IIIII)	1 360 323	380 323
4.4 ¦Lift height	h, (mm)	¦ 11	.5
4.9 Height of tiller in drive position min. / max.	h ₁₄ (mm)	700 /	1160
4.15; Height, lowered	h ₁₃ (mm)	80	
4.19 Overall length	1, (mm)	1530	1536
4.20 Length to face of forks	1, (mm)	380	386
4.21¦ Overall width	b ₁ (mm)	540 685	540 685
4.22 Fork dimension	s/e/l (mm)	47 / 160	0 / 1150
4.25! Width across forks	b ₅ (mm)	540 685	540 685
4.32 Ground clearance, centre of wheelbase		33	
+.321 Ground Clearance, Centre of wheerbase	m ₂ (mm)	J.	
4.34 Aisle width for pallets800X1200 lengthways	Ast (mm)	2000	2006
4.35 Turning radius	Wa (mm)	1330	1336
Performance			
5.1 Travel speed, laden/ unladen	km/h	4.6/ 4.8	4.8/ 5.2
5.2 Lift speed, laden/ unladen	m/s	0.020 / 0.025	0.017 / 0.022
5.3 Lowering speed, laden/ unladen	m/s	0.05 / 0.04	0.05 / 0.03
5.8 Gradeability, laden/ unladen	0/0	6/16	7 / 16
5.10 Service brake	 	Electron	nagnetic
Motors			
6.1 Drive motor rating S2 60min	kW	0.65	0.75
6.2 Lift motor rating at S3 10%	kW	0.50	0.8
6.3 Battery acc. to DIN 43531/35/36 A, B, C, no		/	,
6.4 Battery voltage, nominal capacity K5	V/Ah	24/20(24/30;24/3	36) 48/20
6.5 Battery weight (minimum)	kg	4.6	7.5
6.6 Energy consumption acc. to VDI cycle	kWh/h	0.22	0.18
Addition Data	K 44 II/II	0.22	0.10
3.1 Type of drive control		DC speed	l Control
4-1			
8.4 Sound level at driver's ear acc. to EN 12053	dB(A)	\ <7(U

Type sheet f	or industrial truck acc. t	o VDI 2198	
Distinguishing mark			
1.2 Manufacturer's type design	ation		PT E20B
1.3 Power(battery, diesel, petrolg	as,manual)		Battery
1.4 Operator type			Pedestrian
1.5 Load Capacity / rated load	Q	(t)	2.0
1.6 Load centre distance	c (m	ım)	600
1.8 Load distance, centre of dri	ve axle to fork x (n	nm)	946
1.9 Wheelbase	y (n	nm)	1281
Weight	l _c	105	102
2.1 Service weight	k		
2.2 Axle loading, laden front/re			
2.3 Axle loading, unladen front	/rear k	g ¦ 145/	40 152 / 40
Tyres, chassis 3.1 ¦Tires		ı p	olyurethane (PU)
3.2 Tire size, front	x w (210×70
3.3 Tire size, rear	x w (80×93(80×70)
3.4 Additional wheels(dimension			80×30
3.5 Wheels,number front/rear(x		1x/2(1x	(4) or $1x + 2/2(1x + 2/4)$
3.6 Tread, front	b ₁₀ (n		430
3.7 Tread, rear	b ₁₁ (n	nm) 380	525
Dimensions 4.4 ¦Lift height	h (n	m)	115
4.9 Height of tiller in drive posi	$\frac{h_3 (n)}{h_2 (n)}$		700 / 1160
4.15 Height, lowered	tion min./ max. h_{14} (n h_{13} (n		80
4.19 Overall length	$\frac{1}{1}$ (m		1628
4.20! Length to face of forks	l ₂ (m		478
4.21 Overall width	$\frac{1}{b_1}$ $\frac{1}{b_1}$ $\frac{1}{b_1}$		
4.22 Fork dimensions			47 / 160 / 1150
+	s/e/l (
4.25 Width across forks	b ₅ (n		
4.32 Ground clearance, centre of	wheelbase m_2 (r.	nm) ¦	33
4.34 Aisle width for pallets800X		mm)	2098
4.34 Aisle width for pallets800X	·		2098
4.35 Turning radius Performance	1200 lengthways Ast (mm)	1428
4.35 Turning radius Performance 5.1 Travel speed, laden/ unlader	1200 lengthways Ast (mm)	1428 4.2/ 4.6
4.35 Turning radius Performance 5.1 Travel speed, laden/ unladen 5.2 Lift speed, laden/ unladen	1200 lengthways Ast (i	mm) /h	1428 4.2/ 4.6 0.025 / 0.030
4.35 Turning radius Performance 5.1 Travel speed, laden/ unladen 5.2 Lift speed, laden/ unladen 5.3 Lowering speed, laden/ unladen	1200 lengthways Ast (Wa (m aden m	/h /s /	1428 4.2/ 4.6
4.35 Turning radius Performance 5.1 Travel speed, laden/ unladen 5.2 Lift speed, laden/ unladen 5.3 Lowering speed, laden/ unladen 5.8 Max. gradeability, laden/ unladen	1200 lengthways Ast (Wa (m aden m	/h /s //s //s //s //s //s //s //s //s //	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063 5 / 16
4.35 Turning radius Performance 5.1 Travel speed, laden/ unladen 5.2 Lift speed, laden/ unladen 5.3 Lowering speed, laden/ unladen 5.8 Max. gradeability, laden/ url 5.10 Service brake	1200 lengthways Ast (Wa (m aden m	/h /s //s //s //s //s //s //s //s //s //	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063
Performance 5.1 Travel speed, laden/ unlader 5.2 Lift speed, laden/ unlader 5.3 Lowering speed, laden/ unlader 5.4 Max. gradeability, laden/ unlader 5.8 Max. gradeability, laden/ unlader 5.10 Service brake Motors	1200 lengthways Ast (Wa (m km maden m aladen 9	/h /s /	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063 5 / 16 Electromagnetic
4.35 Turning radius Performance 5.1 Travel speed, laden/ unladen 5.2 Lift speed, laden/ unladen 5.3 Lowering speed, laden/ unladen 5.8 Max. gradeability, laden/ unladen/	1200 lengthways Ast (in Manager Manage	/h /s	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063 5 / 16 Electromagnetic 0.75
Performance 5.1 Travel speed, laden/ unlader 5.2 Lift speed, laden/ unlader 5.3 Lowering speed, laden/ unlader 5.8 Max. gradeability, laden/ unlader 5.10 Service brake Motors 6.1 Drive motor rating \$2 60m 6.2 Lift motor rating at \$3 10%	1200 lengthways Ast (Wa (m aden m aladen 9 in ky	/h /s	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063 5 / 16 Electromagnetic 0.75 0.8
4.35 Turning radius Performance 5.1 Travel speed, laden/ unlader 5.2 Lift speed, laden/ unladen 5.3 Lowering speed, laden/ unladen 5.8 Max. gradeability, laden/ unladen 5.10 Service brake Motors 6.1 Drive motor rating \$2 60m 6.2 Lift motor rating at \$3 10% 6.3 Battery acc. to DIN 43531/	1200 lengthways Ast (Wa (m km aden m aladen 9 in kV 35/36 A, B, C, no	mm) /h //s /	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063 5 / 16 Electromagnetic 0.75 0.8 No
Performance 5.1 Travel speed, laden/ unlader 5.2 Lift speed, laden/ unlader 5.3 Lowering speed, laden/ unlader 5.8 Max. gradeability, laden/ unla 5.8 Max. gradeability, laden/ unla 5.10 Service brake Motors 6.1 Drive motor rating \$2 60m 6.2 Lift motor rating at \$3 10% 6.3 Battery acc. to DIN 43531/ 6.4 Battery voltage, nominal ca	1200 lengthways Ast (Wa (m km aden m aladen 9 in kV 35/36 A, B, C, no	mm) /h //s /	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063 5 / 16 Electromagnetic 0.75 0.8 No 48/20
Performance 5.1 Travel speed, laden/ unlader 5.2 Lift speed, laden/ unlader 5.3 Lowering speed, laden/ unlader 5.8 Max. gradeability, laden/ unlader 5.10 Service brake Motors 6.1 Drive motor rating \$2 60m 6.2 Lift motor rating at \$3 10% 6.3 Battery acc. to DIN 43531/ 6.4 Battery voltage, nominal ca 6.5 Battery weight (minimum)	1200 lengthways	mm)	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063 5 / 16 Electromagnetic 0.75 0.8 No
Performance 5.1 Travel speed, laden/ unlader 5.2 Lift speed, laden/ unlader 5.3 Lowering speed, laden/ unlader 5.8 Max. gradeability, laden/ unla 5.8 Max. gradeability, laden/ unla 5.8 Drive brake Motors 6.1 Drive motor rating \$2 60m 6.2 Lift motor rating at \$3 10% 6.3 Battery acc. to DIN 43531/ 6.4 Battery voltage, nominal ca	1200 lengthways	mm) /h //s /	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063 5 / 16 Electromagnetic 0.75 0.8 No 48/20
Performance 5.1 Travel speed, laden/ unlader 5.2 Lift speed, laden/ unlader 5.3 Lowering speed, laden/ unlader 5.8 Max. gradeability, laden/ unlader 5.8 Drive motor rating S2 60m 6.1 Drive motor rating S2 60m 6.2 Lift motor rating at S3 10% 6.3 Battery acc. to DIN 43531/ 6.4 Battery voltage, nominal ca 6.5 Battery weight (minimum) 6.6 Energy consumption acc. to Addition Data	1200 lengthways	mm) /h /s /s /v V Ah /s h/h	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063 5 / 16 Electromagnetic 0.75 0.8 No 48/20 30 0.19
4.35 Turning radius Performance 5.1 Travel speed, laden/ unladen 5.2 Lift speed, laden/ unladen 5.3 Lowering speed, laden/ unladen 5.8 Max. gradeability, laden/ unla 5.8 Max. gradeability, laden/ unla 5.8 Max. gradeability, laden/ unla 6.1 Drive motor rating S2 60m 6.2 Lift motor rating at S3 10% 6.3 Battery acc. to DIN 43531/ 6.4 Battery voltage, nominal ca 6.5 Battery weight (minimum) 6.6 Energy consumption acc. to	Ast (1) Wa (1) In km aden m Illaden 9 in kV 35/36 A, B, C, no pacity K5 V/ ky VDI cycle kW	mm) /h /s /s /v V Ah /s h/h	1428 4.2/ 4.6 0.025 / 0.030 0.075 / 0.063 5 / 16 Electromagnetic 0.75 0.8 No 48/20 30





Mast table PSE 12B/PSE 12N					
Designation	Lowered mast height h ₁ (mm)	Free lift height h ₂ (mm)	Lift height h ₃ (mm)	Extended mast height h ₄ (mm)	Lift + fork height $h_3 + h_{13}(mm)$
G' 1 4	1930	1514	1514	1930	1600
Single-stage mast	2330	1914	1914	2330	2000
	1780	_	2514	3037	2600
Two-stage mast	1930	-	2814	3337	2900
	2080	-	3114	3637	3200
	2280	_	3514	4037	3600



		idustrial truck acc			
istinguis	shing mark				
1.2	Manufacturer's type designation		PS E12B	PS E12N 3600	
1.3	Power (battery ,diesel, petrol, gas, manual)	-		attery	
1.4	Operator type			destrian	
1.5	Load Capacity / rated load	Q(t)		1.2	
1.6	Load centre distance	c (mm)		600	
1.8	Load distance ,centre of drive axle to fork	x (mm)		760	
1.9	Wheelbase	y (mm)		 1147	
/eight					
2.1	Service weight	kg ¦	620	585 	
2.2	Axle loading, laden front/rear	kg ¦	580 / 1240	560 / 1225	
2.3	Axle loading, unladen front/rear	kg	450 / 170	440 / 145	
res, ch		,	Doly	annath an a	
$\frac{3.1}{3.2}$	Tires Tire size, front	x w (mm)		urethane 210×70	
3.3	Tire size, rear	$-\frac{x \cdot w \cdot (mm)}{x \cdot w \cdot (mm)} - \frac{1}{x}$		210^70 084×93	
3.4	Additional wheels(dimensions)	x w (mm)		100×50	
3.5	Wheels,number front/rear(x=driven wheels)		1x	+1/2	
3.6	Tread, front	b ₁₀ (mm)		550	
3.7	Tread, rear	b ₁₁ (mm)	40	0 / 515	
imensio		la (mm)		2200	
4.2 4.3	Lowered mast height	h (mm)		2280 	
- 4 .3 - 4.4	Free Lift height Lift height	h_2 (mm) h_3 (mm)		 251 <i>1</i>	
4.5	! Extended mast height	$h_4 \text{ (mm)}$	3514		
4.9	Height of tiller in drive position min./ max.	-	4037710 /1150		
4.15	Height, lowered	h_{13} (mm)	1 86		
4.19	Overall length	$l_1 (mm)$	1710		
4.20	Length to face of forks		1		
		l ₂ (mm)	; 		
4.21	Overall width	b ₁ (mm)		800	
4.22	Fork dimensions	s/e/l (mm)		80 / 1150	
4.25	Distance between fork-arms	b ₅ (mm)	57	70 /685 	
4.32	Ground clearance, centre of wheelbase	m ₂ (mm)			
4.33	Aisle width for pallets 1000X1200 crossways	Ast (mm)		2197 	
4.34	Aisle width for pallets 800X1200 lengthways	Ast (mm)		2145 	
4.35	Turning radius	Wa (mm)		1350	
	ince Data				
5.1	Travel speed, laden/ unladen	km/h		.2/4.5	
5.2	Lift speed, laden/ unladen	m/s		11/0.16	
5.3	Lowering speed, laden/ unladen	m/s	0.13 / 0.11		
5.8	Max. gradeability, laden/ unladen	- 		5 / 10	
5.10	Service brake	i	Electr	omagnetic	
ectric- 6.1	engine Drive motor rating S2 60min	kW 1		0.65	
		-			
6.2	Lift motor rating at S3 4.5%	- k W -	2.2		
6.3	Battery acc. to DIN 43531/35/36 A, B, C, no	-	No		
6.4	Battery voltage, nominal capacity K5	V/Ah	2x12/85 1)	24/60	
6.5	Battery weight +/-5%	kg	2x27 ²⁾	19	
6.6	Energy consumption acc: to VDI cycle	kWh/h		0.8	
dditiona					
8.1	Type of drive control			DC	
8.4	Sound level at driver's ear acc. to EN 12053	dB(A)		< 70	

1) Option: 2x12V/106Ah

2) 2x12V/106Ah : 2 x 34