PSE12BD/ND EDGE Stacker-Initial Lift Pallet Stackers

PSE12BD/ND

- 1.2T Capacity AGM 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 Li-ion

Smart and Ergnomic Tillers

Standard For PSE12B and PSE12N

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

*PSE12BD/ND、PSE12BSL/NSL、PSE12BM/NM and PSE12B/N have the same tiller as standard,PSE12N、PSE12ND、PSE12NS、PSENM have the RFID card as standard.

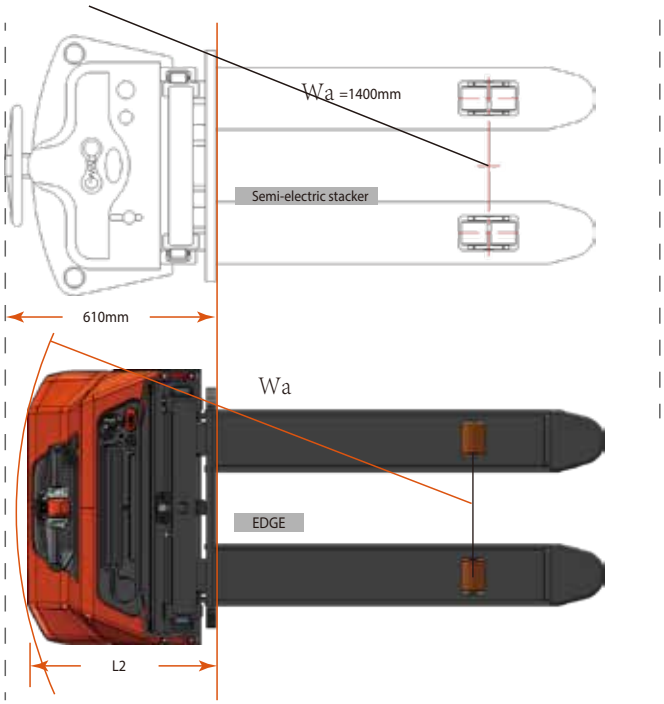
Vertical Driving in Confined Space

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.

For increase of operation comfort and safety the trucks are equipped with speed reduction function in turns.

Smart Design with Compact Size and Perfect observation



Model	length(L2)	Turning Radius
PSE12BD/ND	602mm	1467/1384mm

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.

Gradeability Performance

Model	PSE12BD/ND
Max.grade ability laden	5%
Max.grade ability unladen	10%

Robustness

Welded forks are used to ensure robustness.

Steel cover

The main cover is made out of steel with thickness 2.0mm.

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

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

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

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

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

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.)

Capacity

17.6%	Ready	Min Volt	Max Volt
	24.50V	0mV	0mV
		Avg Volt	Communication
	0.00A	0.0mV	Normal

Realtime

Rated Capacity 60.0 Ah Wh(Current) 0.0 Wh Reset
Discharge Cycle ... Discharge Cycle ...
Times Times

Other

Name	Value	Units
Cell Temp1	25.3	□
Cell Temp1	25.1	□
SOC	45	1/255
Power Temp	27.1	□
Envir Temp	32.2	□
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	A
Run(Wh)	0	Wh

CAN-bus **B**attery **M**anagement **S**ystem

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.

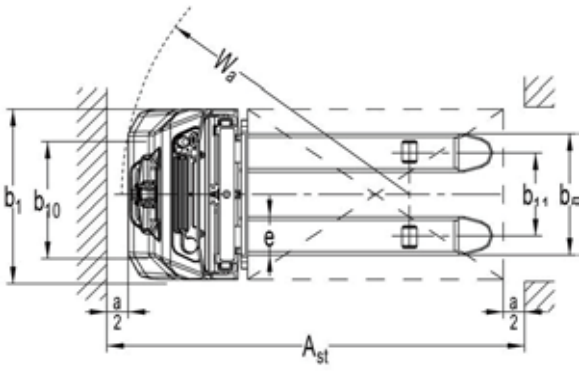
The **PSE12ND**stacker is equipped with maintenance-free 24V/60Ah LiFePO4 type Li-ion battery with fast charging and ultra-high number of charging /discharging cycles during life time; opportunity charging feature basically does not limit your operation time. The integrated BMS provides the same features 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.

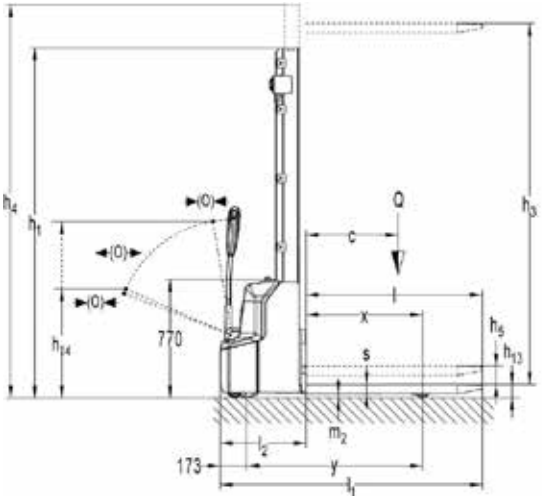
The **PSE12BD** stacker is equipped with 2x12V 85Ah VRLA-AGM maintenance free batteries. Optionally available 2x12V 105Ah batteries for longer operation.
The stacker is equipped with 12A on-board charger. The charging time is 7-8 hours, opportunity charging is not available.

PSE12BD/ND EDGE Stacker - Initial Lift

Mast table PSE 12BD/PSE 12ND

Designation	Lowered mast height h1 (mm)	Free lift height h2 (mm)	Lift height h3 (mm)	Extended mast height h4 (mm)	Lift+fork height h3+h13 (mm)
Single-stage mast	1970	1514	1514	1970	1600
	2370	1914	1914	2370	2000
Two-stage mas	1820	-	2514	3070	2600
	1970	-	2814	3377	2900
	2120	-	3114	3637	3200
	2320	-	3514	4077	3600





Type sheet for industrial truck acc. to VDI 2198 1KG=2.2LB 1INCH=25.4MM

Identification				
1.2	Manufacturer`s type designation		PS E12BD	PS E12ND
			3600	
1.3	Drive		Battery	
1.4	Operator type		Pedestrian	
	Load Capacity / rated load	Q (t)	1.2[3]	
1.5	Mast lifting capacity	Q (t)	1.2	
	Pallet lifting capacity	Q (t)	1.2	
1.6	Load centre distance	c (mm)	600	
1.8	Load distance ,centre of drive axle to fork	x (mm)	835/752[4]	
1.9	Wheelbase	y (mm)	1264/1181[3]	
Weights				
2.1	Service weight	kg	700	670
2.2	Axle loading, laden front/rear	kg	680 / 1220	670 / 1200
2.3	Axle loading, unladen front/rear	kg	505 / 195	485/ 185
Wheels、Chassis				
3.1	Tires		Electromagnetic	
3.2	Tire size,front	Øx w (mm)	Ø210×75	
3.3	Tire size,rear	Øx w (mm)	Ø84×93	
3.4	Additional wheels(dimensions)	Øx w (mm)	Ø100×50	
3.5	Wheels,number front/rear(x=driven wheels)		1x + 1 / 2	
3.6	Tread, front	b10 (mm)	550	
3.7	Tread, rear	b11 (mm)	400 / 515	
Basic Dimemsions				
4.2	Lowered mast height	h1(mm)	2320	
4.3	Free Lift height	h2(mm)	-	
4.4	Lift	h3(mm)	4077	
4.5	Extended maximal height	h4(mm)	3514	
4.6	Initial lift	h5(mm)	120	
4.9	Height of tiller in drive position min./ max.	h14 (mm)	710/1150	
4.15	Height, lowered	h13 (mm)	90	
4.19	Overall length	l1 (mm)	1752	
4.20	Length to face of forks	l2 (mm)	602	
4.21	Overall width	b1 (mm)	800	
4.22	Fork dimensions	s/e/l (mm)	60 /180/1150	
4.25	Width across forks	b5 (mm)	570/685	
4.32	Ground clearance, centre of wheelbase	m2 (mm)	24	
4.33	Aisle width for pallets1000X1200 crossways	Ast (mm)	2290/2234[4]	
4.34	Aisle width for pallets800X1200 lengthways	Ast (mm)	2209/2185[4]	
4.35	Turning radius	Wa (mm)	1467/1384[4]	
Performance Data				
5.1	Travel speed, laden/ unladen	km/h	4.2/ 4.5	
5.2	Lift speed, laden/ unladen	m/s	0.11 / 0.14	
5.3	Lowering speed, laden/ unladen	m/s	0.13 / 0.11	
5.8	Max. gradeability, laden/ unladen	%	5 / 10	
5.10	Service brake		Electromagnetic	
E-Motor				
6.1	Drive motor rating S2 60min	kW	0.65	
6.2	Lift motor rating at S3 10%	kW	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	kg	2x27[2]	17
6.6	Energy consumption acc. to VDI cycle	kWh/h	0.66	
Other Details				
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(AGM)。

2) 2x12V/106Ah: 2x34kg

3)When we operate the two layers: Mast lifting capacity< Pallet lifting capacity

4) No initial lift/Initial lift