



Official website



Our Wechat

Noblelift Headquarters

Add:#528 Changzhou Road, Taihu
Sub-district, Changxing, 313100, China
TEL:+86 572 6210311/6120989
FAX:+86 572 6210777
WEB:www.noblelift.com
Email: info@noblelift.com

Noblelift North America Corp.

Add:2461 S Wolf Road, Des Plaines, IL 60018
Tel:847-595-7100
Fax:847-595-7200
Email:sales@nobleliftna.com
Http: www.nobleliftna.com

Noblelift Europe GmbH

Add:Borsigstrasse 9d-93092 Barbing
Germany
TEL:+49 9401 607930
FAX:+49 9401 6079329
WEB:www.noblelifteuopr.com
Email: mail@noblelifteurope.com

Noblelift Russia

ООО "Ноблелифт Рус"
194292, Санкт-Петербург
Домостроительная ул. 4А офис 301
Бизнес-центр "Парнас"
тел.: +7 (800) 700-28-97
Email: sales@noblelift.com.ru



NOBLELIFT

Material Handling

EDGE series

Pallet Truck:

Li-ion Powered 1.2T- 1.5T- 2.0T & AGM 2.0T

Pallet Stacker:

Li-ion or AGM Powered 1.2T, Lift height: up to 3.6m



NOBLELIFT INTELLIGENT EQUIPMENT CO., LTD

www.noblelift.com

The **EDGE**
Smart Design

Pallet Stackers



EDGE Stacker
- EU Standard (Fork-over)
PSE12B/N



EDGE Stacker - Initial Lift
PSE12BD/ND



EDGE Stacker - Straddle Leg:
PSE12BSL/NSL



EDGE Stacker-Mono-Mast
PSE12BM/NM

PSE12B/BD/BSL/BM

- **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/ND/NSL/NM

- **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

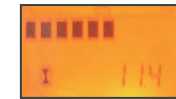
Performance

Smart and Ergonomic Tillers

Standard For PSE12B and PSE12N

Turtle Speed Button

Smart **Pin Code** Access



Battery discharge indicator
Operating hour counter
On-board diagnostics via error codes

BACK

Emergency-reverse & Horn Buttons

Dual butterfly-style thumb driving controls

Electric lifting and lowering

FRONT

RFID card Access

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



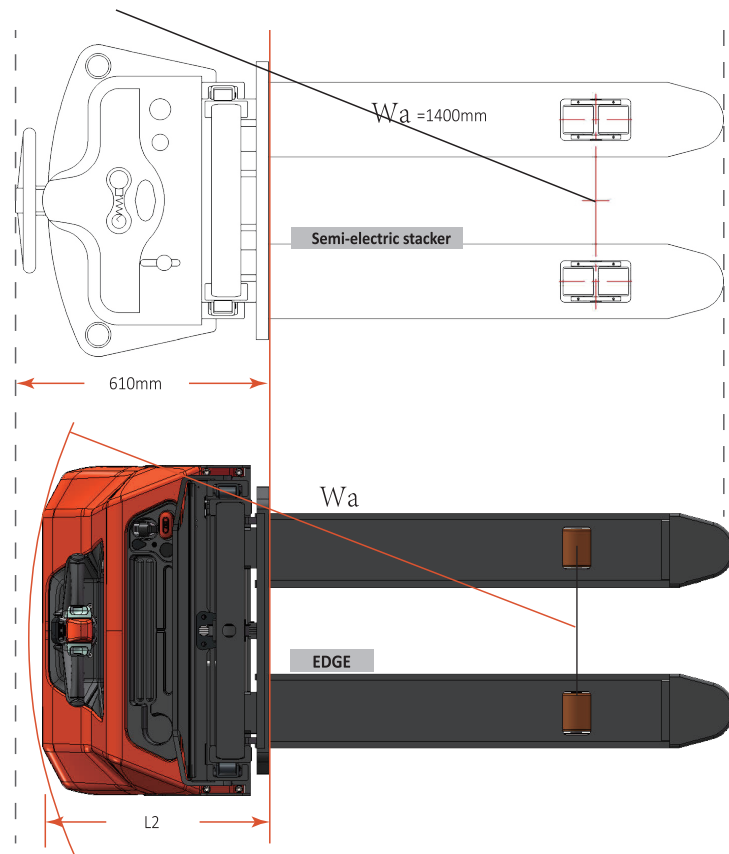
The function of driving with tiller in the **vertical position** helps with work in confined area without sacrificing of safety.

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
PSE12B/N	560mm	1350mm
PSE12BD/ND	602mm	1467/1384mm
PSE12BSL/NSL	640mm	1345mm
PSE12BM/NM	560mm	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. (Except PSE12BM/NM)

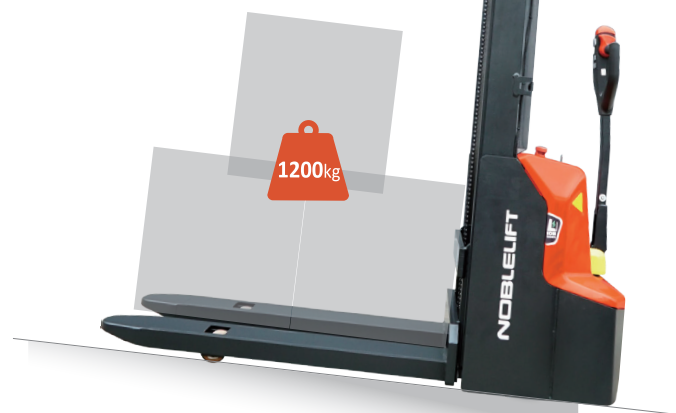


The operator can always clearly see the forks which significantly increases safety of operation



Gradeability Performance

Mode	PSE12B/N/BD/ND/BM/NM	PSE12BSL/NSL
Max. grade ability laden	5%	4%
Max. grade ability unladen	10%	10%



Robustness



Steel cover

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



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.

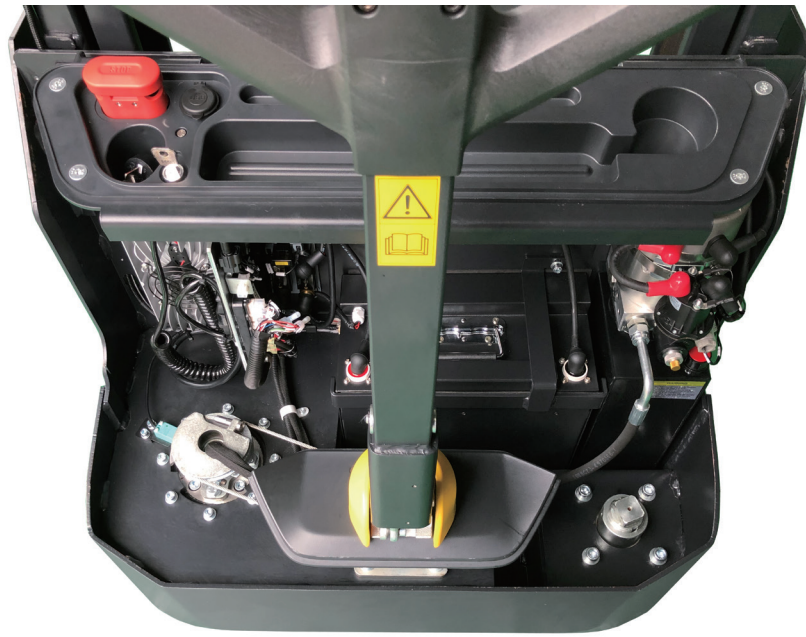


Welded forks are used to ensure robustness.

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.



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

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

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	

Name	Value	Units
Cell	3507	mV
Total	24.5	V
Current	0.0	A
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/BD/BSL/BM
2x12 85Ah (5Hr) AGM maintenance free batteries are used.
Optionally available 2x12 106Ah (5Hr).

PSE12N/ND/NSL/NM
24V 60Ah Lithium LiFePO4 battery with BMS. Lithium battery has connection terminals with screws and located inside the steel case

For PSE12B the charger with current 12A is used. The standard charging time is 7 hours

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

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

Various Options(Pallet Truck)

S=Standard O=Optional — =not available



Optional tandem fork rollers



Optional high traction drive wheel



Optional Stability Castors

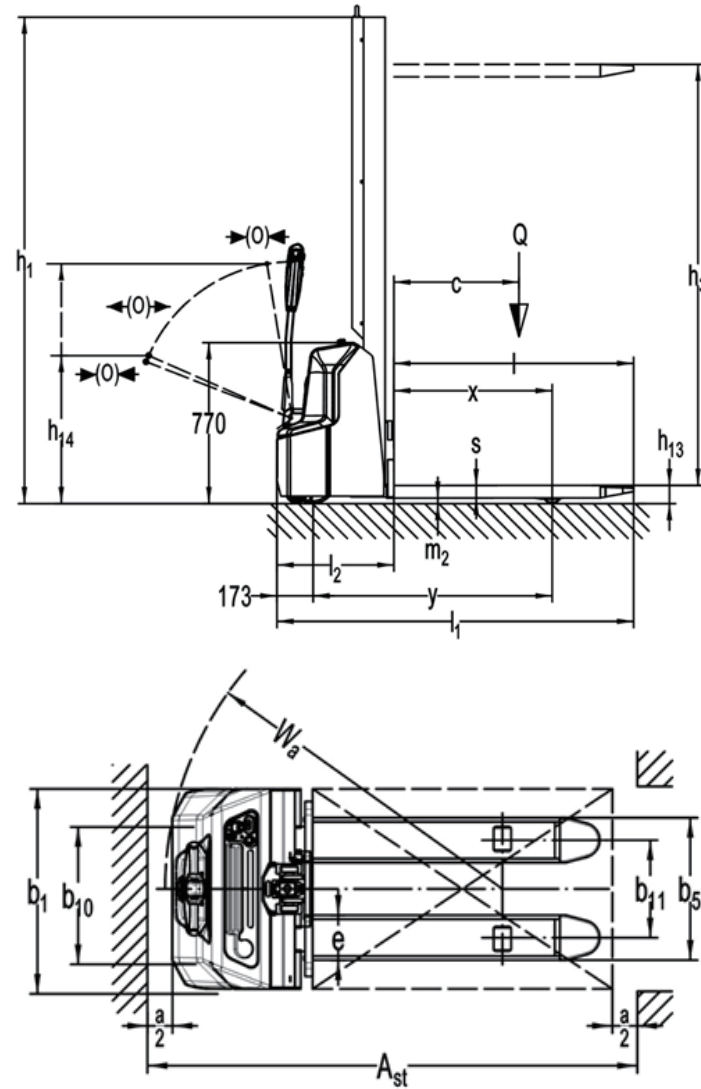
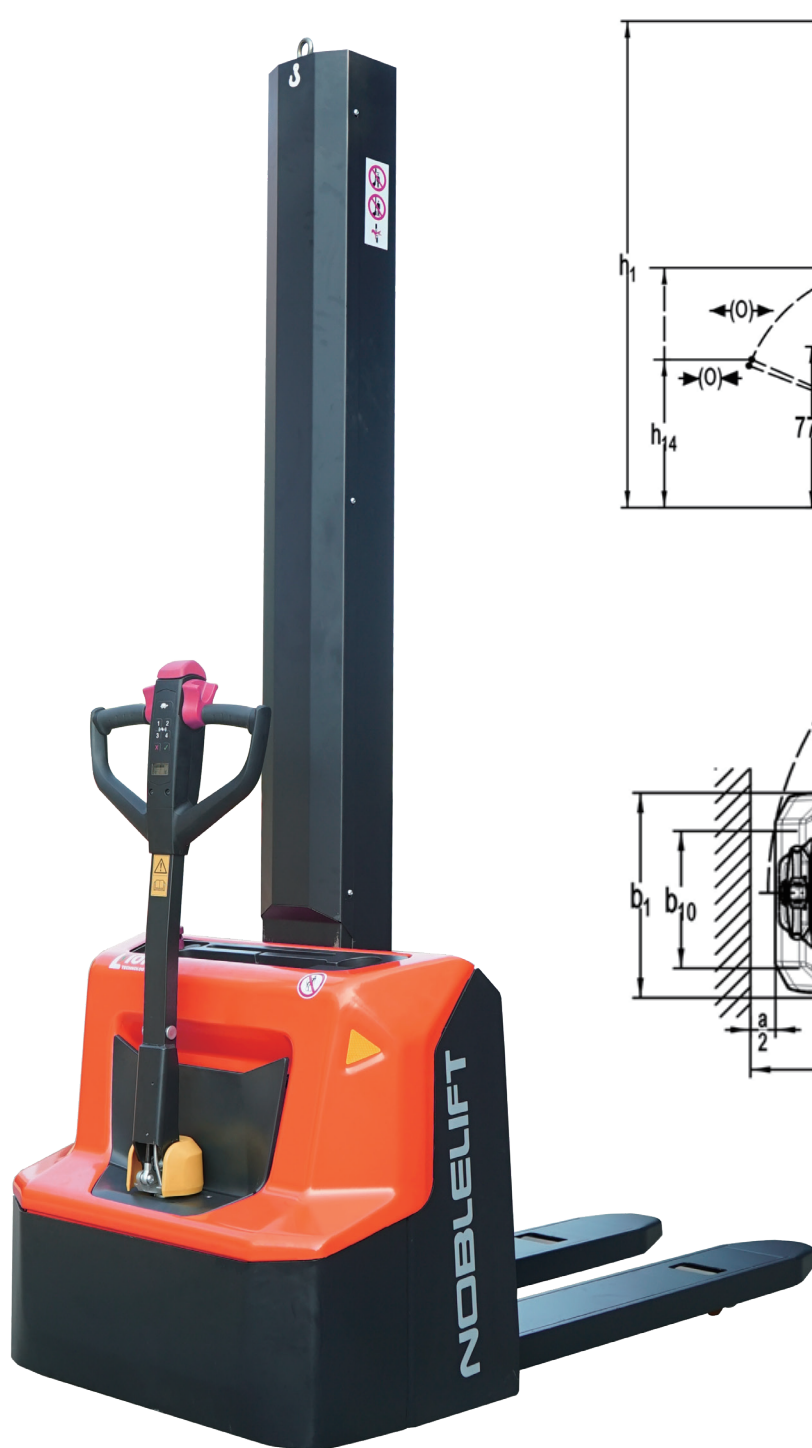


Optional backrest

PSE12BM/NM EDGE Stacker-Mono-Mast

Mast table PSE 12BM/PSE 12NM

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	1130	714	1514	1130	800
	1930	1514	1914	1930	1600
	2330	1914	2514	2330	2000



Type sheet for industrial truck acc. to VDI 2198

Distinguishing mark		PSE12BM	PSE12NM
1.2	Manufacturer's type designation		2000
1.3	Power (battery ,diesel, petrol, gas, manual)		Battery
1.4	Operator type		Pedestrian
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
Weight			
2.1	Service weight	kg	530
2.2	Axle loading, laden front/rear	kg	500 / 1230
2.3	Axle loading, unladen front/rear	kg	375 / 155
Tyres, chassis			
3.1	Tires		Polyurethane
3.2	Tire size, front	x w (mm)	Φ210×75
3.3	Tire size, rear	x w (mm)	Φ84×93
3.4	Additional wheels(dimensions)	x w (mm)	Φ100×50
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
Dimensions			
4.2	Lowered mast height	h1 (mm)	2330
4.3	Free Lift height	h2 (mm)	1914
4.4	Lift height	h3 (mm)	1914
4.9	Height of tiller in drive position min./ max.	h14 (mm)	710 / 1150
4.15	Height, lowered	h13 (mm)	86
4.19	Overall length	l1 (mm)	1710
4.20	Length to face of forks	l2 (mm)	560
4.21	Overall width	b1 (mm)	800
4.22	Fork dimensions	s/e/l (mm)	60 / 180 / 1150
4.25	Distance between fork-arms	b5 (mm)	570
4.32	Ground clearance, centre of wheelbase	m2 (mm)	24
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
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
Electric- engine			
6.1	Drive motor rating S2 60min	kW	0.65
6.2	Lift motor rating at S3 4.5%	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 ²⁾
6.5	Battery weight +/-5%	kg	2x27 ³⁾
6.6	Energy consumption acc: to VDI cycle	kWh/h	0.8
Additional data			
8.1	Type of drive control		DC
8.4	Sound level at driver's ear acc. to EN 12053	dB(A)	<70

1) Including the ring screw: +55mm.

2) Option: 2x12V/106Ah.

3) 2x12V/106Ah: 2x34kg.