

## Smart and Ergonomic Tillers

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

### Standard For PTE12N & PTE20B



### Standard For PTE15N , Optional PTE12N & PTE20B



### 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

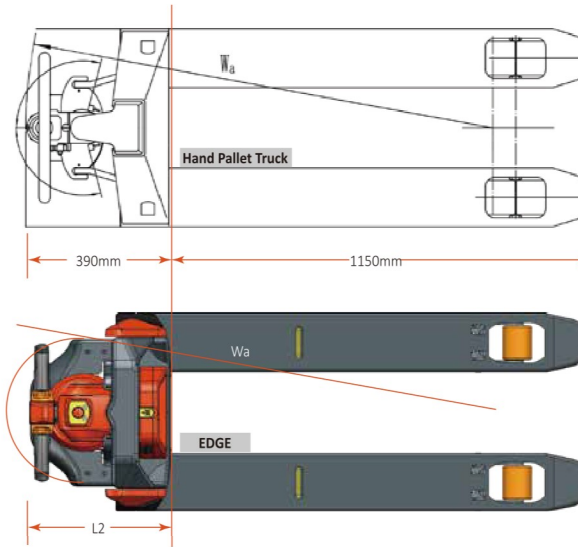


The tiller bar is supported by the air spring which helps to return the tiller to its vertical position without strike in the end point.

For increase of operation comfort and safety the trucks are equipped with speed reduction function in turns. (Optional for PTE12N and PTE15N, standard for other trucks)

The value of speed reduction is adjustable according to customers' preferences .

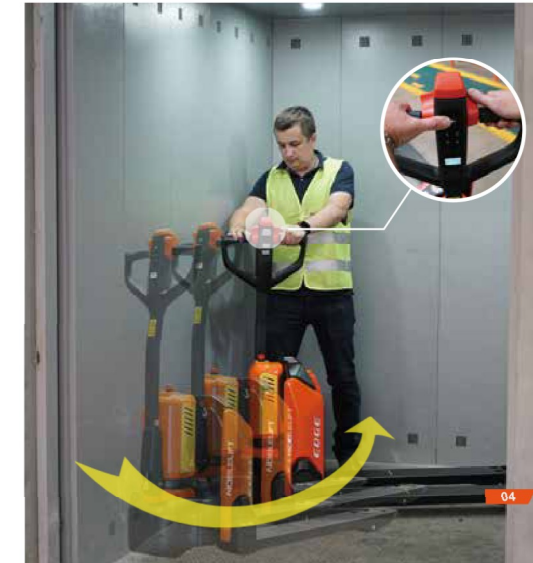
## Compact Design and Vertical Driving



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

Our engineers put a lot of efforts to achieve compactness of the trucks in comparison with traditionally used manual and semi-electric products in order to provide full-electric solutions with high efficiency to replace old-fashioned low productive manual and semi-electric equipment and significantly reduce probability of injuries of operators caused by manual pumping or pushing/ pulling. At the same time, the service weight is minimized without compromising the robustness of the trucks esp. for delivery applications where the self-weight of the trucks is critical.

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



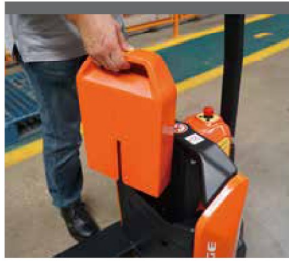
# Smart & Replaceable Batteries for Pallet Trucks

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

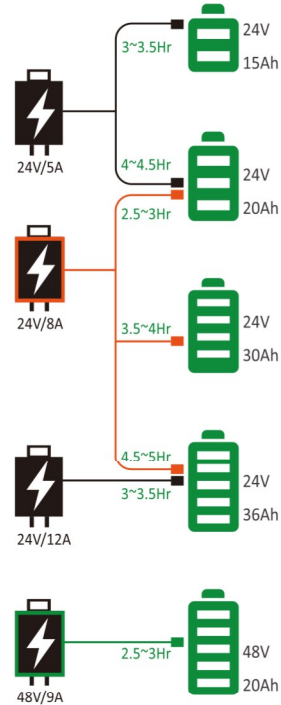
Light weight of the battery(max. 8kg) and the easiest way of fast battery replacement allows even a female operator to double the working time within seconds. The light weight of the batteries can be achieved through use of Li-ion battery type with high ratio of energy density to its self-weight.



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



Socket on battery case for easy battery charging without necessity to take the battery out

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

**100%** min. **2.5 hours** charge | 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 fiber.



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.

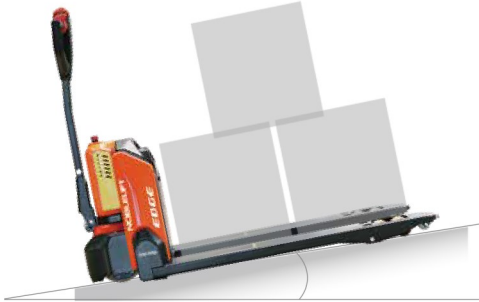


PTE15N



PTE20B

## Gradeability 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 PTE20N.



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.**



Capacity			
Ready	24.50V	Min Volt 0mV	Max Volt 0mV
17.6%	0.00A	Avg Volt 0.0mV	Communication Normal
Realtime			
Rated Capacity	60.0 Ah	Wh(Current) 0.0	Wh [Reset]
Discharge Cycle Times	--	Discharge Cycle Times	--
Other			
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	A	
Power(PMA)	0	W	

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.