

PTE15N PRO PTE20N PRO

EDGE

Lithium electric pallet truck with
a load capacity of 1500 and 2000 kg



INTRODUCTION

The new "EDGE" PTE15N PRO and PTE20N PRO electric pallet truck models are at the cutting edge of innovation. They are the perfect combination of the compactness of a manual pallet truck and the efficiency of an electric pallet truck. All powered by a lithium-ion battery.

The new electric pallet truck that revolutionises market standards

- Equipped with a real BMS complying with the "EN62619" standard
- 24 V / 40 Ah lithium-ion battery with integrated heating system
- Can be recharged down to -15°C
- 12Ah fast charger
- HUB-EDGEPRO charging station (optional)
- 90° straight drawbar as standard
- Automatic speed reduction on bends
- 6 hours of autonomy

// BENEFITS

- Ultra-compact, lightweight design, only 125kg
- Average autonomy of 5 hours
- Easily interchangeable IP65 battery
- Ergonomic gas-pressurised drawbar (IP65)
- LCD screen and PIN code start-up
- Fitted as standard with stabilising rollers on shock absorbers

TOP-OF-THE-RANGE COMPONENTS

- CURTIS drive
- INTORQ brake
- CANBUS technology



• Polyurethane non-slip wheel
Ø 210 mm x 70mm
as standard



Battery lock system with code lock (Anti-Theft)
as standard



Option

- Load backrest



ERGONOMIC AND INTELLIGENT TILLER

Standard on PTE15N PRO and PTE20N PRO



The RFID access card is standard on the PTE20N PRO and optional on the PTE15NPRO.

The RFID card provides faster access to the equipment and is ideal for applications where the pallet truck needs to be used by different operators.

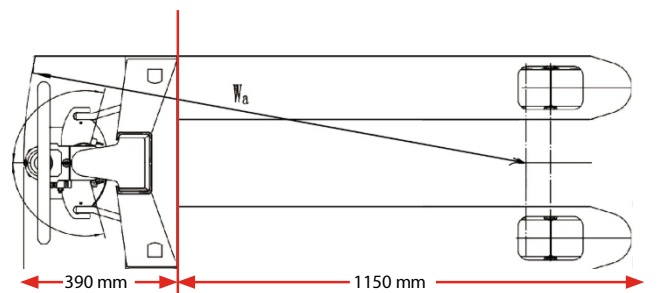


The EDGE PRO tiller has been specially designed with ergonomics in mind. Its slightly rounded shape has been specially designed to adapt perfectly to the shape of the operator's hand.

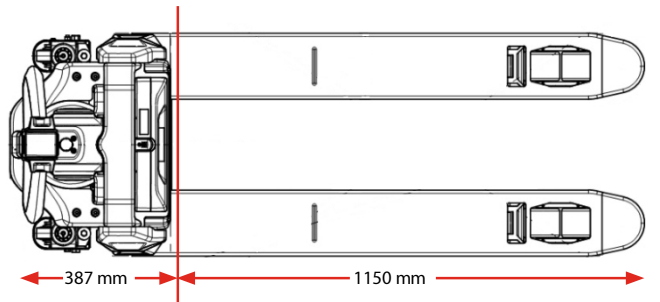
The tiller features an LCD screen and PIN code start-up.

The EDGE PRO tiller is fitted with a gas strut for greater flexibility.

It is also equipped with a speed reduction system that can be set to reduce speed on bends, so you can always work safely.



HAND PALLET TRUCK



ELECTRIC PALLET TRUCK

PTE15NPRO

Model	Total length	Radius of gyration	Service weight
PTE15N PRO	1537 mm	1336 mm	125 kg
PTE20N PRO	1543 mm	1342 mm	149 kg

The overall length of the PTE15N PRO is less than that of a standard hand pallet truck, while retaining the same fork lengths.

The turning radius of the EDGE PRO is just 1336mm with the forks in the upright position, making it one of the most manoeuvrable electric pallet trucks on the market.

The new EDGE PRO is fitted as standard with a system enabling it to move with the tiller in a vertical position (90°). Ideal for confined spaces (lifts, narrow aisles, etc.).





STURDY CHASSIS WITH INNOVATIVE DESIGN

Robust and compact are the words that best characterise the chassis of the new EDGE PRO. Everything has been thought out to increase the robustness of the equipment, while maintaining an extremely low weight of 125 kg.



High capacity, up to 2000 kg High crossing capacity

Model	Maximum gradient with load	Maximum gradient without load
PTE15N PRO	6 %	16 %
PTE20N PRO	7 %	16 %

Steel chassis

The various parts of the chassis are made of steel and can be dismantled, giving the PTE15N PRO and PTE20N PRO for greater robustness and a multitude of customisation options.



Fork design

The design of the forks has been specially studied to facilitate pallet entry and exit.

The C-shaped design of the forks makes it even more robust.



Stabiliser on shock absorbers

The EDGE's low rear fairing is made of steel to protect both the operator and the gearbox.



LITHIUM-ION BATTERY

PTEPRO pallet trucks are fitted with maintenance-free Li-ion batteries, with optional capacities available for various applications.

The light weight of the battery (max. 8.7 kg) and the quick and easy battery replacement system mean you can double your working time in a matter of seconds.

The battery casing for pallet trucks is made of 70% fibreglass and 30% ABS.



Li-Ion
BATTERY TECHNOLOGY

Average range recorded

PTE15NPRO



24 V / 40 Ah

6h00

Complete refill

PTE15NPRO



24 V / 40 Ah

3h30

75% in 1h15

PTE20NPRO



48V / 20 Ah

3h00

PTE20NPRO



48V / 20 Ah

2h30

75% in 40min

CNAM Recommendation R.367

Recommends the use of an electric pallet truck for all handling of pallets weighing more than 360 kg for female staff and 600 kg for male staff.

The integrated **BMS (Battery Management System)** monitors all the important parameters of the battery to ensure optimum performance and long life. It complies with standard **EN62619**.



All the batteries

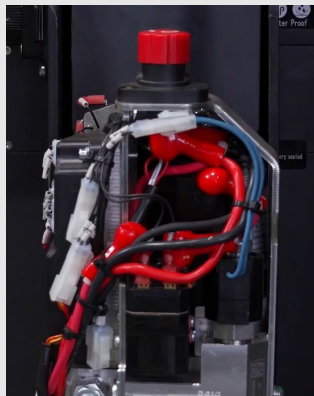
an on-board battery management system (BMS), which provides mandatory monitoring of all important battery parameters during charging and operation.

Li-ion batteries

on-board battery management system (BMS), which provides mandatory monitoring of all important battery parameters during charging and operation.

This control guarantees the safety of the Li-ion battery throughout its life cycle. Li-ion batteries are certified according to international transport safety standards (sea and air) and standards of use. The BMS communicates with the pallet truck's control system via CAN-BUS. Support for CAN-BUS protocols means that the battery's condition can be monitored and diagnosed using special software available to

EASY MAINTENANCE



The pallet trucks are equipped with Curtis controllers, and CAN-bus technology facilitates diagnosis and troubleshooting.



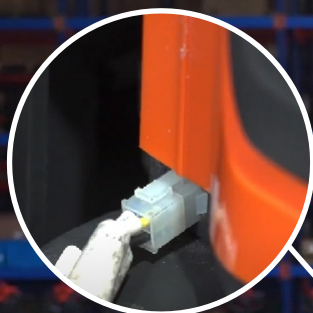
CAN-bus

INTORQ

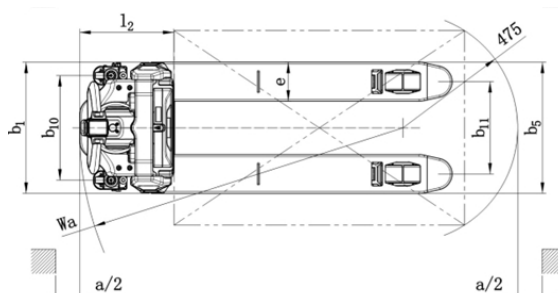
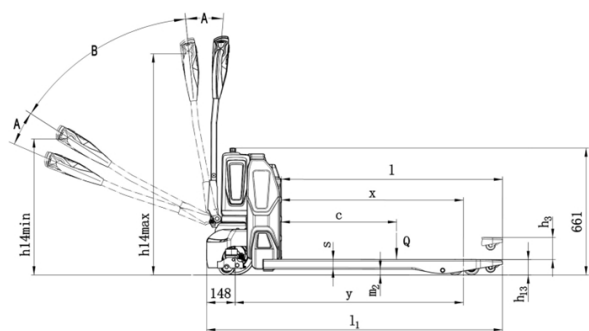
CURTIS

The use of proven and certified components ensures compliance with international safety standards, with all available supporting documentation as required by law.

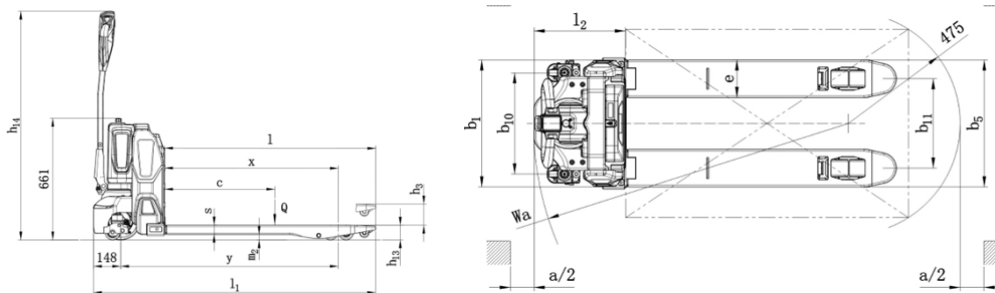
Each battery can be diagnosed via the CAN connection using a special software tool (optional). The software can provide battery status information such as cell balance, number of charge/discharge cycles, current, energy consumption, temperature, charge/discharge parameters, voltage of each cell, faults and alarms, timing settings for automatic shutdown.



**External diagnostic
socket accessible
without tools**



Technical data in accordance with VDI 2198					
Features	1.2	Reference - Model		PTE15N PRO	PTE20N PRO
		Trade name		EDGE	EDGE
	1.3	Propulsion mode		electric	
	1.4	Type of driving		companion	
	1.5	Rated capacity	Q (t)	1,5	2
	1.6	Centre of gravity	c (mm)	600	600
	1.8	Distance from deck to roller axis	x (mm)	947	951
	1.9	Wheelbase	y (mm)	1187	1189
Weight	2.1	Weight with batteries	kg	125	152
	2.2	Axle load with front/rear load	kg	500 / 1225	625 / 1528
	2.3	Axle load without front/rear load	kg	96 / 29	119 / 34
Wheels Chassis	3.1	Wheels		polyurethane (PU)	
	3.2	Drive wheel dimensions	Ø x w (mm)	Ø 210 x 70	Ø 210 x 70
	3.3	Dimensions front rollers	Ø x w (mm)	Ø 80 x 70 (single roller = 80 x 93)	
	3.4	Stabiliser wheel dimensions	Ø x w (mm)	Ø 80 x 30	Ø 80 x 30
	3.5	Number of front/rear wheels (x= drive wheel)		1 x+ 2 / 4	1 x+ 2 / 4
	3.6	Frame spacing	b10 (mm)	430	430
	3.7	Rear wheel centre distance	b11 (mm)	380	525
Dimensions	4.4	Standard lift	h3 (mm)	115	115
	4.9	Height of drawbar in min/max running position	h14 (mm)	700 / 1160	700 / 1160
	4.15	Minimum fork height	h13 (mm)	80	80
	4.19	Overall length	l1 (mm)	1537	1543
	4.20	Length without forks	l2 (mm)	387	393
	4.21	Overall width	b1 (mm)	540	540
	4.22	Fork dimensions	s / e / l (mm)	50 / 160 / 11150	50 / 160 / 1150
	4.25	Outside width of forks	b5 (mm)	540	540
	4.32	Ground clearance	m2 (mm)	33	30
	4.34	Aisle width with pallet 800 x 1200 mm	Ast (mm)	2013	2013
	4.35	Radius of gyration	Wa (mm)	1336	1342
Performance	5.1	Travel speed with/without load	km / h	4,6 / 4,8	4,8 / 5,2
	5.2	Lift speed with/without load	mm / s	25 / 20	17 / 22
	5.3	Lowering speed with / without load	mm / s	50 / 40	30 / 50
	5.8	Permissible gradient with/without load	%	6 / 16	8 / 16
	5.10	Service brake		electromagnetic	
Electrical system	6.1	Traction motor, power S2 60 min	kW	0,65	1
	6.2	Lift motor, power S3 10	kW	0,5	0,8
	6.3	Batteries to DIN 43531 / 35 / 36 A, B, C, No		no	no
	6.4	Battery voltage / rated capacity K5	V / Ah	24 / 40	24 / 48
	6.5	Battery weight	kg	8,7	5,5
	6.6	Energy consumption according to VDI cycle	kWh / h	0,18	0,25
Miscellaneous	8.1	Transmission type		DC - speed control	
	8.4	Driver's ear noise level to EN 12053	dB (A)	< 69	< 69



Technical data in accordance with VDI 2198

Features	1.2	Reference - Model		PTE15NPRO 800	PTE15NPRO 1500	PTE15NPRO 1800
		Trade name		EDGE	EDGE	EDGE
	1.3	Propulsion mode		electric		
	1.4	Type of driving		companion		
	1.5	Rated capacity	Q (t)	1,5	1,5	1,5
	1.6	Centre of gravity	c (mm)	400	750	900
	1.8	Distance from deck to roller axis	x (mm)	597	1297	1597
	1.9	Wheelbase	y (mm)	836	1536	1836
Weight	2.1	Weight with batteries	kg	121	140	146
	2.2	Axle load with front/rear load	kg	620 / 1001	639 / 1001	645 / 1001
	2.3	Axle load without front/rear load	kg	92 / 29	111 / 29	117 / 29
Wheels Chassis	3.1	Wheels		polyurethane (PU)		
	3.2	Drive wheel dimensions	$\varnothing \times w$ (mm)	$\varnothing$ 210 x 70	$\varnothing$ 210 x 70	$\varnothing$ 210 x 70
	3.3	Dimensions front rollers	$\varnothing \times w$ (mm)	$\varnothing$ 80 x 70 (single roller = 80 x 93)		
	3.4	Stabiliser wheel dimensions	$\varnothing \times w$ (mm)	$\varnothing$ 80 x 30	$\varnothing$ 80 x 30	$\varnothing$ 80 x 30
	3.5	Number of front/rear wheels (x = drive wheel)		1 x+ 2 / 4	1 x+ 2 / 4	1 x+ 2 / 4
	3.6	Frame spacing	$b10$ (mm)	430	430	430
	3.7	Rear wheel centre distance	$b11$ (mm)	380	380	380
Dimensions	4.4	Standard lift	$h3$ (mm)	115	115	115
	4.9	Height of drawbar in min/max running position	$h14$ (mm)	760 / 1245	760 / 1245	760 / 1245
	4.15	Minimum fork height	$h13$ (mm)	80	80	80
	4.19	Overall length	$l1$ (mm)	1188	1888	2188
	4.20	Length without forks	$l2$ (mm)	388	388	388
	4.21	Overall width	$b1$ (mm)	540	540	540
	4.22	Fork dimensions	$s / e / l$ (mm)	50 / 160 / 800	50 / 160 / 1500	50 / 160 / 1800
	4.25	Outside width of forks	$b5$ (mm)	540	540	540
	4.32	Ground clearance	$m2$ (mm)	30	30	30
	4.34	Aisle width with pallet 800 x 1200 mm	Ast (mm)	2013	2013	2013
	4.35	Radius of gyration	Wa (mm)	809	1159	1309
Performance	5.1	Travel speed with/without load	km / h	4,6 / 4,8	4,6 / 4,8	4,6 / 4,8
	5.2	Lift speed with/without load	mm / s	20 / 25	20 / 25	20 / 25
	5.3	Lowering speed with / without load	mm / s	50 / 40	50 / 40	50 / 40
	5.8	Permissible gradient with/without load	%	6 / 16	6 / 16	6 / 16
	5.10	Service brake		electromagnetic		
Electrical system	6.1	Traction motor, power S2 60 min	kW	0,65	0,65	0,65
	6.2	Lift motor, power S3 10	kW	0,5	0,8	0,5
	6.3	Batteries to DIN 43531 / 35 / 36 A, B, C, No		no	no	no
	6.4	Battery voltage / rated capacity K5	V / Ah	24 / 40		
	6.5	Battery weight	kg	9,7	9,7	9,7
	6.6	Energy consumption according to VDI cycle	kWh / h	0,18	0,18	0,18
Miscellaneous	8.1	Transmission type		DC - speed control		
	8.4	Driver's ear noise level to EN 12053	dB (A)	< 69	< 69	< 69