EXP15 V26

1500kg Automatic Pallet Truck

Your Simple Mover

Let's grow together



- World's first automatic pallet truck EXP15= EPT20-15ET+ Automation
- Application Scenario: Ideal solution for repetitive and high-intensity point-to-point goods transfer.
- Simple Operation: Anyone can learn how to operate in 5 minutes with just 5 buttons.
- Simple Setup: No WiFi or complex systems needed. Touch-and-go for instant use anywhere.
- Simple Process: Affordable and accessible solution for businesses of all sizes starting automation.
- Simple Service: No specialist engineers required.
- Multi-task Function: Offer great flexibility and adaptability in various handling environments by learning up to 10 transportation tasks and easy switch.
- Automated Pick-up & Column Drop-off: Automatic pallet pickup and sequential, multi-point drop-off functions within a column for streamlined workflow

Manufacturer			EP
Model designation			EXP15 V26
Drive			Electric
Load capacity	Q	kg	1500
Load center distance	c	mm	600
Service weight		kg	230
Overall width	b1/b2	mm	636 (650) (700)
Fork dimensions	s/e/l	mm	55/150/1150
Turning radius	Wa	mm	1400
Travel speed, laden/unladen		m/s	1.1/1.25
Max. gradeability, laden/unladen		%	5/5
Battery voltage/nominal capacity		V/Ah	24/60
Safety protection			180° Lidar | Emergency stop button
Positioning			2D visual navigation
Parking accuracy		mm	±20
Navigation accuracy		mm	±20

EP EQUIPMENT CO.,LTD
www.ep-equipment.com

V2510.01

FEATURE

As the first of its kind- world's first automatic pallet truck - EXP15 represents a revolution in warehouse automation. EXP15 embodies the principle of “Innovation through Simplicity”, offering a touch-and-go solution that eliminates complexity from material handling operations. As your business evolves, the EXP15 evolves with you—making it the perfect partner for anyone.



Simplicity

Simple Operation

One worker. Five minutes. Five buttons. That's all it takes to master the EXP15. EXP15 puts the power of automation in everyone's hands. Any worker can confidently operate it, No special training or robotics expertise needed.

Simple Setup

Free yourself from IT constraints with the EXP15 's simple setup. No WiFi connection, no complex IT system, and no specialized engineers needed—just place reflectors at your start and end points for paths up to 50 meters, and you're ready to go. EXP15's touch-and-go solution makes automation accessible to all.

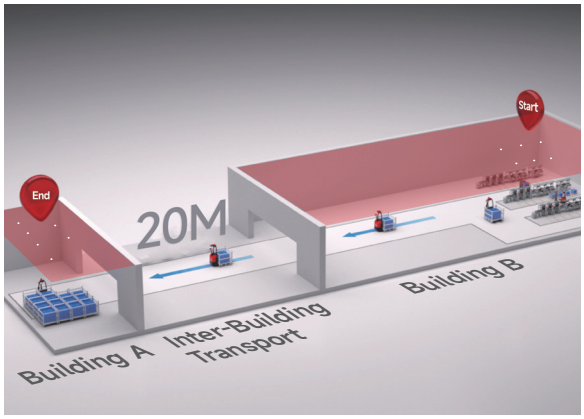
Simple Sales Process

The EXP15 offers an affordable entry point into automation, ideal for businesses taking their first steps into robotics. Perfect for repetitive transport tasks, it addresses fundamental material handling needs. EXP15 is a solution for businesses of all sizes—simple enough to master quickly, yet powerful enough to solve real challenges.

Simple Service

Experience maintenance as simple as an electric pallet truck, but with the capabilities of a robot. No robotics engineers or specialized technicians required.

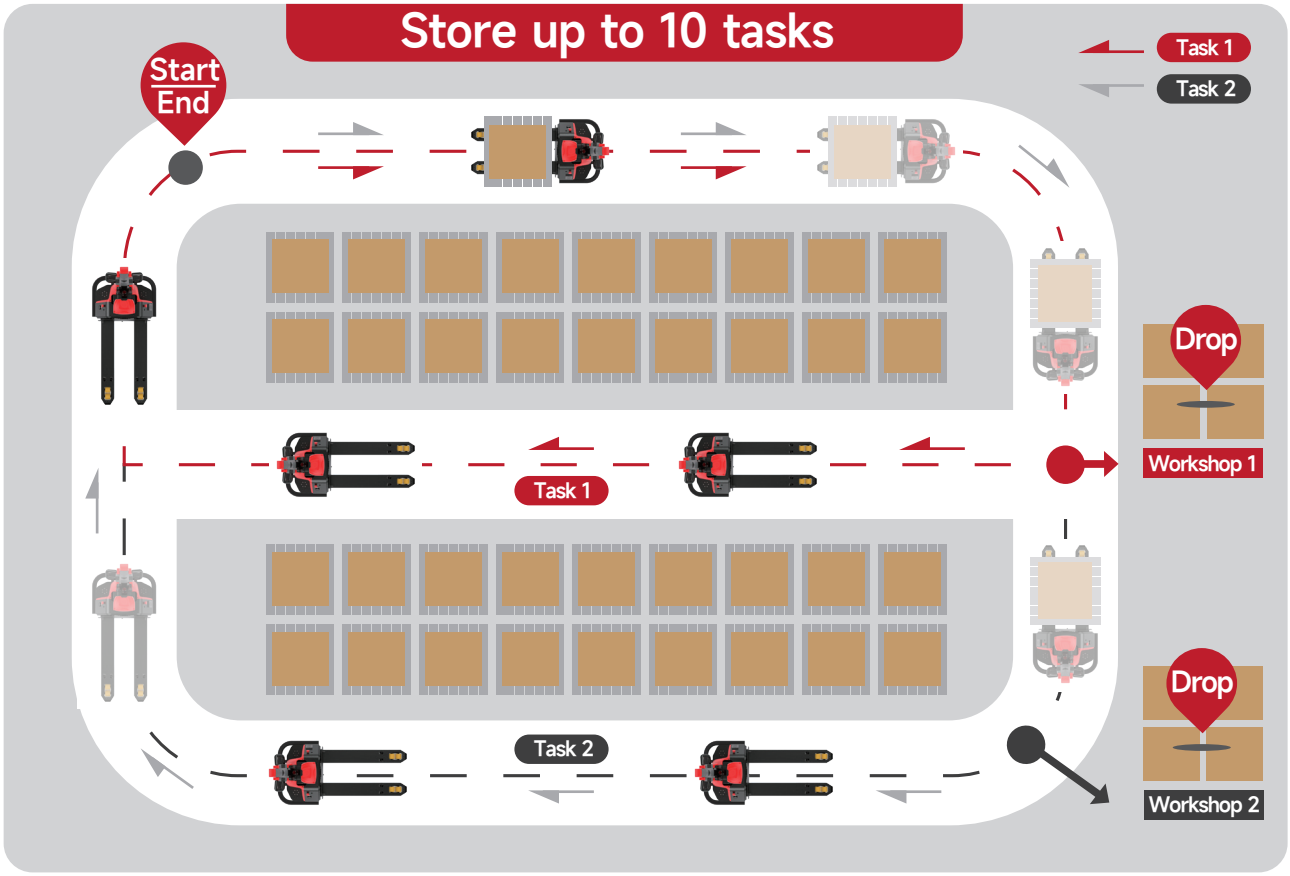




FEATURE

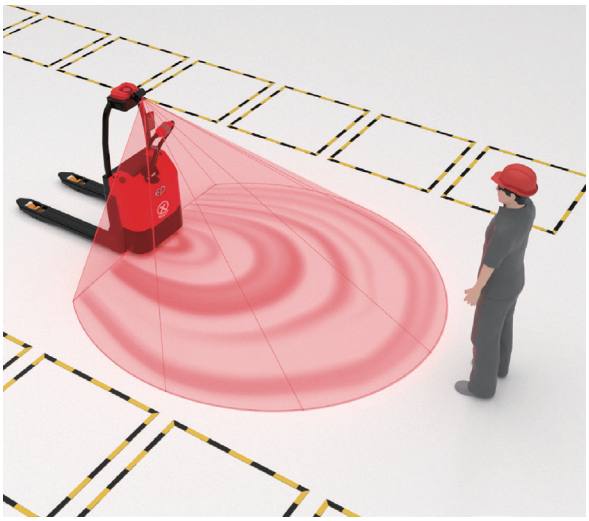
Multi-task Function for Great flexibility and Adaptability

EXP15's multi-task function provides operational adaptability and flexibility for maximizing material handling capacity and reducing labor intensity. It can learn and store up to 10 different routes with precise point-to-point navigation and automatic drop-off. By the two buttons “+” and “-”, workers can easily switch tasks, reflecting EXP15's signature simplicity. The EXP15 automates repetitive handling tasks and frees up labor from intensive work, which perfectly achieves human-machine collaboration.



Safety

The EXP15 prioritizes safety without compromise.Built to meet all electric truck safety standards, it goes further with dual laser protection systems -both up and down-ensuring comprehensive coverage and prevent collisions.By integrating CE-certified safety controllers and LiDAR systems, enhanced safety performance and reliability, ensuring EXP15 meets CE safety standards.



Safety Controller





LiDAR







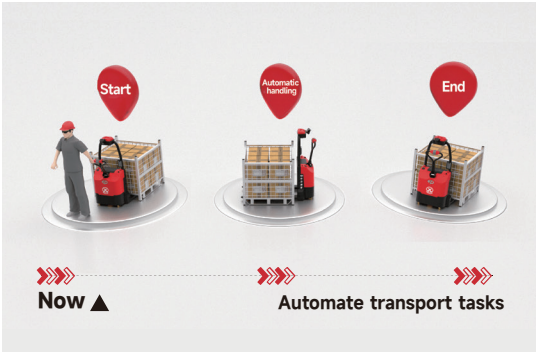
Plug-in battery design

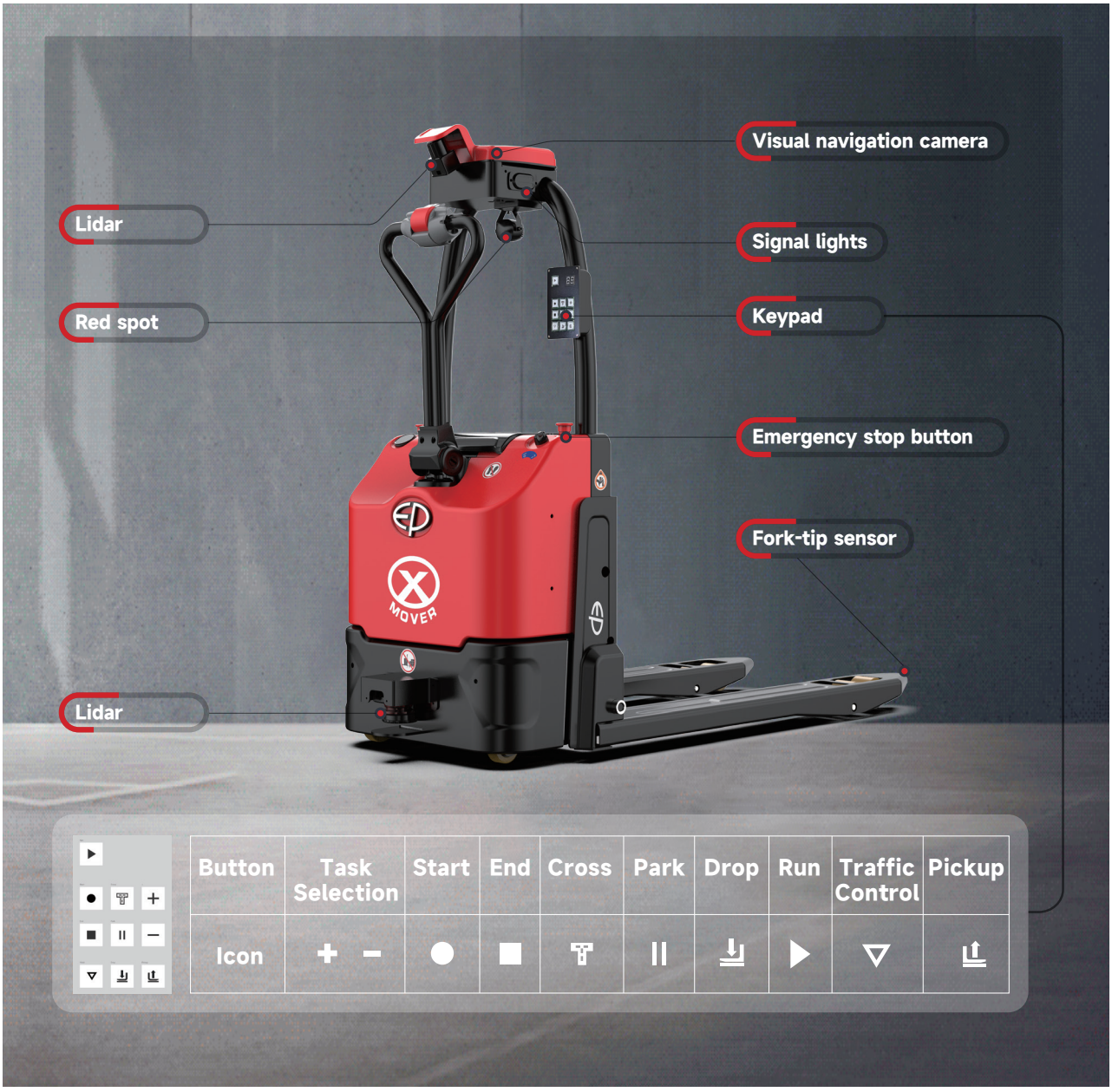
Stay productive with smart plug-in battery design. The EXP15 features a 24V/60Ah Li-ion battery system that can be manually swapped in moments, minimizing downtime and maximizing efficiency.



Solving labor challenge

Transform your operations from electric to automatic, reducing physical work intensity to zero. Experience dramatic cost savings with up to 80% reduction in labor expenses, while maintaining peak productivity.





FEATURE

Automated Pick-and-Drop Function for Streamlined Linear Tasks

Building on its signature simplicity, the EXP15 now introduces a fully automated option designed for linear and multi-point workflows, further enhancing flexibility and operational efficiency.
This upgrade allows the EXP15 to handle more complicated tasks with minimal setup and streamlines the entire transport process. With less manual intervention, the EXP15 becomes a more powerful solution for automating the material handling processes.

Automated Multi-Point Pickup and Drop-Off

The EXP15 can now learn and execute tasks along a straight line or production lines. The new multi-column drop-off function allows the truck to autonomously navigate to specific locations along the column to perform multiple pick-ups and drop-offs. This is ideal for systematically moving goods from a single aisle or distributing materials to multiple workstations in a row.

Intuitive Task Programming with New 'Pickup' and 'Yield' Keys

Setting up these new linear tasks remains simple. Using the new 'Pickup' button, an operator can quickly teach the EXP15 the start and end points of a pickup line. For enhanced safety in multi-robot environments, the new 'Yield' button allows any EXP1 to dynamically mark its location as a "traffic control point". When activated, other EXP15 units will recognize the zone, slow down, and yield priority, ensuring safe and efficient operation without collisions. This creates temporary traffic rules to manage different scenarios and enhance human-machine collaboration.

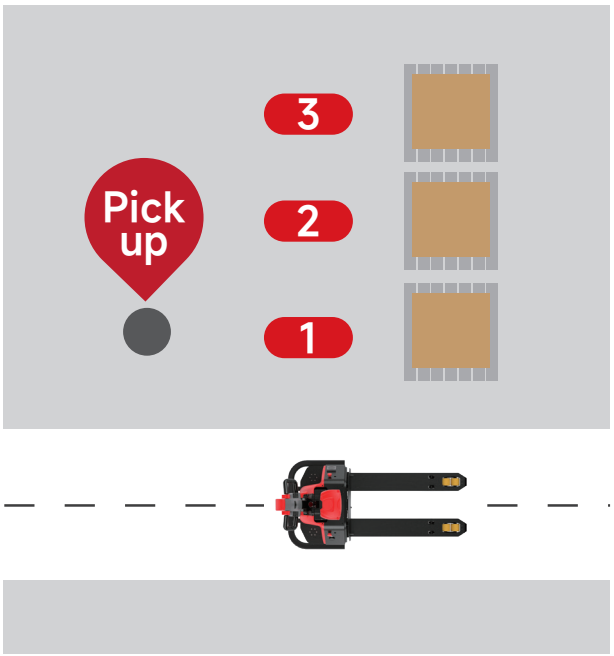
Reliable Task Confirmation with Mechanical Position Switch

To ensure flawless execution, the EXP15 is equipped with a mechanical position switch. This sensor provides physical confirmation of the load status by detecting the presence of a pallet on the forks. The switch is pressed down after a successful pickup and springs back up once the load has been dropped off. This foolproof detection confirms that each drop-off task is complete, signaling the EXP15 to reliably return to the start point before beginning its next mission.

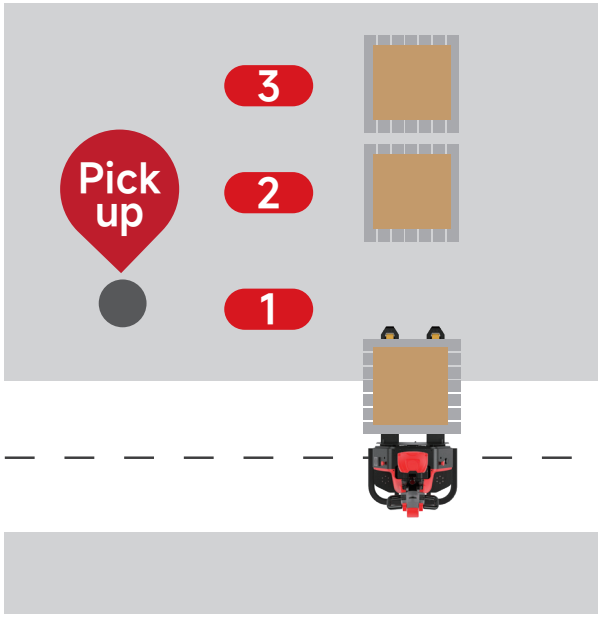
Step 1 Easy Teach-in



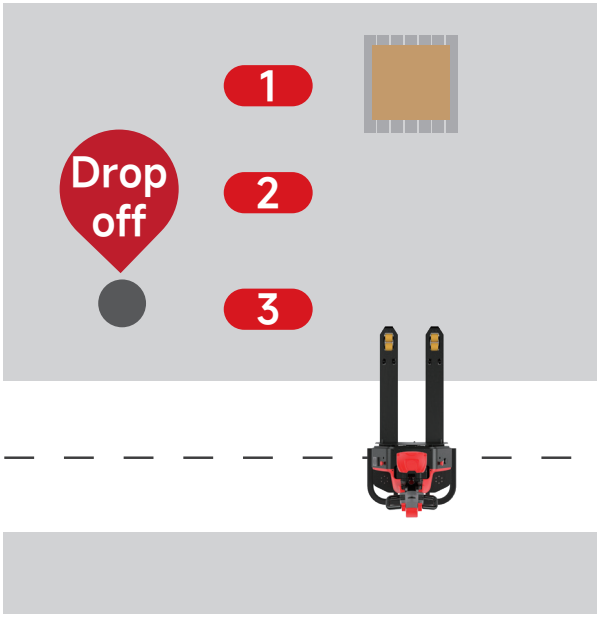
Step 2 Start



Step 3 Pick Up



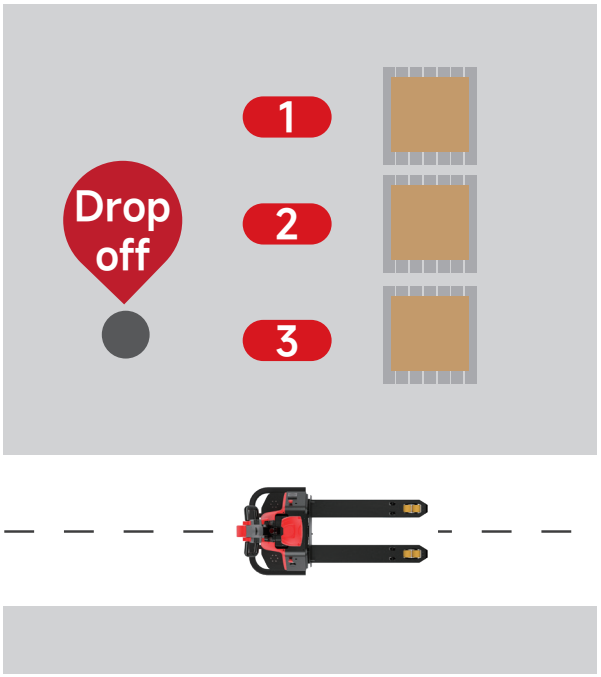
Step 4 Drop Off

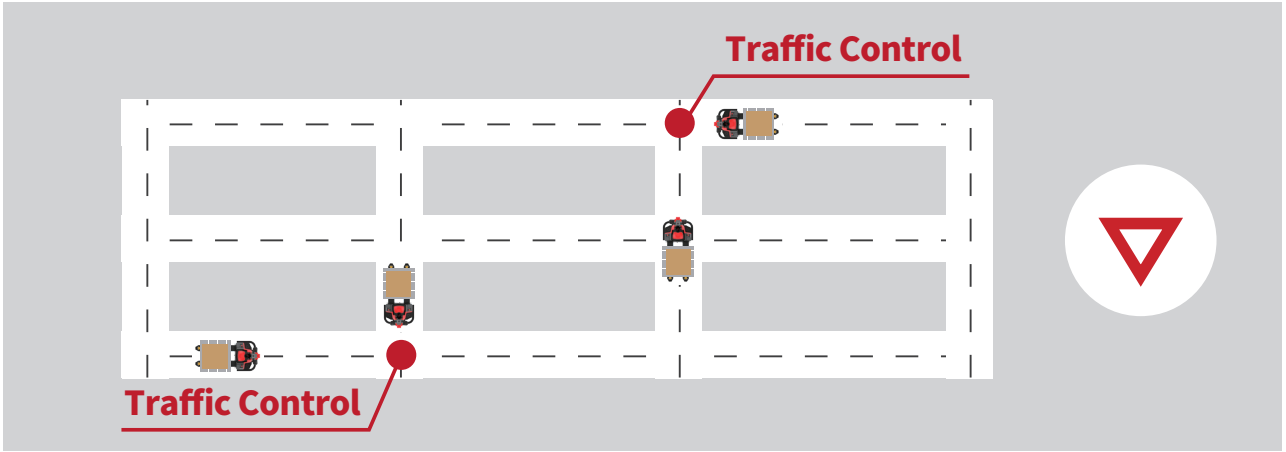


Step 5 Start Again



Step 6 Finish

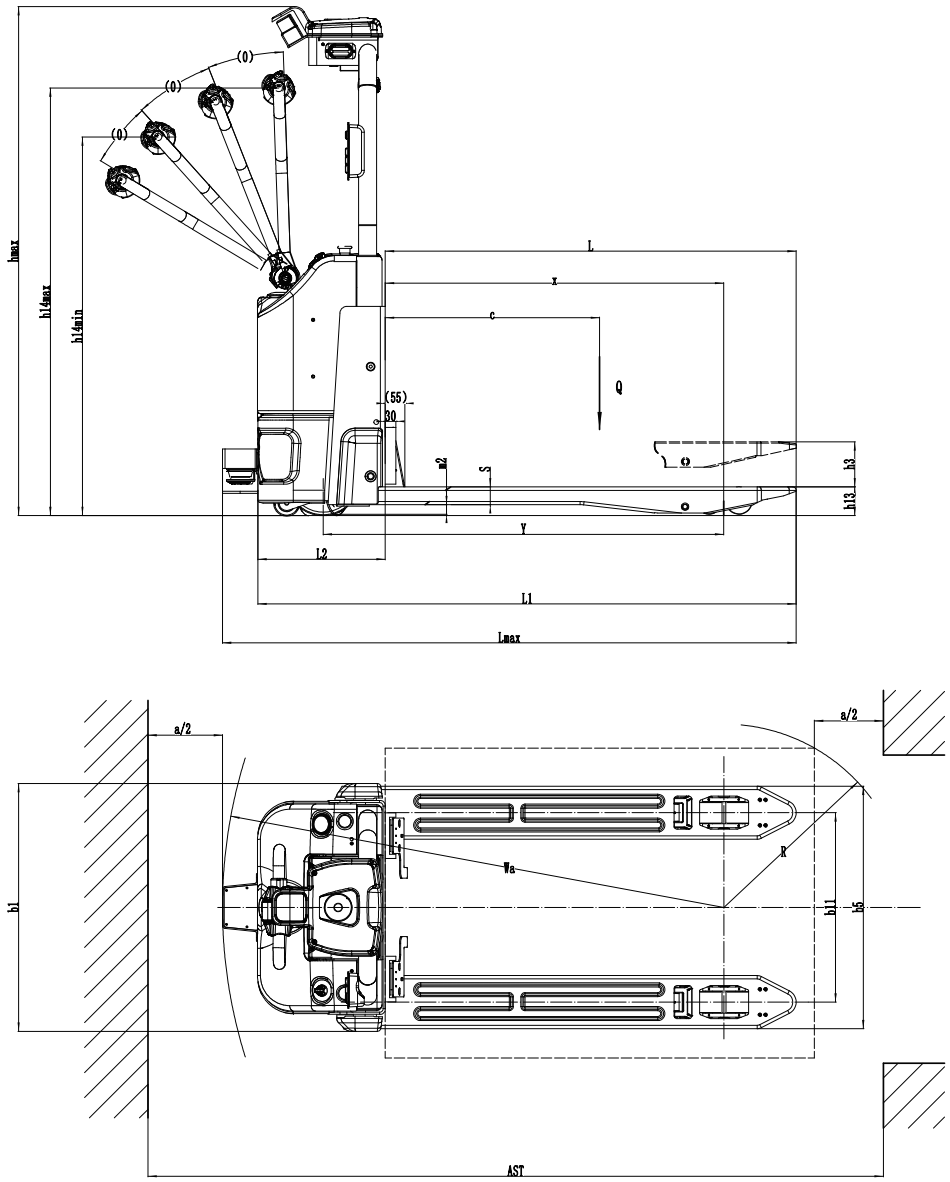




1500kg Automatic Pallet Truck
EXP15 V26

Distinguishing mark	1.1	Manufacturer			EP
	1.2	Model designation			EXP15 V26
	1.3	Drive			Electric
	1.4	Operator type			Pedestrian
	1.5	Load capacity	Q	kg	1500
	1.6	Load center distance	c	mm	600
	1.8	Load distance, centre of drive axle to fork	x	mm	950
	1.9	Wheelbase	y	mm	1130
Service weight	2.1	Service weight		kg	230
	2.2	Axle loading, laden front/rear		kg	1100/700
	2.3	Axle loading, unladen front/rear		kg	30/200
Dimensions	4.2	Overall height	h1	mm	1420
	4.4	Lift height	h3	mm	90
	4.15	Lowered height	h13	mm	85
	4.19	Overall length	l1	mm	1620
	4.20	Length to face of forks	l2	mm	450
	4.21	Overall width	b1/b2	mm	636 (650) (700)
	4.22	Fork dimensions	s/e/l	mm	55/150/1150
	4.25	Width over the forks	b5	mm	540/600/685
	4.32	Ground clearance, center of wheelbase		mm	20
	4.34.1	Aisle width for pallets 1000×1200 crossways	Ast	mm	1860
	4.35	Turning radius	Wa	mm	1400
Performance data	5.1	Travel speed, laden/unladen		m/s	1.1/1.25
	5.2	Lifting speed, laden/unladen		m/s	0.020/0.035
	5.3	Lowering speed, laden/unladen		m/s	0.058/0.046
	5.8	Max. gradeability, laden/unladen		%	5/5
	5.10	Service brake			Electromagnetic
Electric-engine	6.1	Drive motor rating S2 60 min		kW	0.9
	6.2	Lift motor rating at S3 15%		kW	0.8
	6.4	Battery voltage/nominal capacity		V/Ah	24/60
	6.5	Battery weight		kg	14
Addition data	8.1	Type of drive unit			AC
	10.5	Steering design			Electric
	10.7	Sound pressure level at the driver's ear		dB(A)	<74
	10.11	Indoor/Outdoor			Indoor
	10.12	Safety notification			Horn
	10.13	Safety protection			180° Lidar Emergency stop button Fork-tip sensor
	10.14	Positioning			2D visual navigation
	10.15	Parking accuracy		mm	±20
	10.16	Navigation accuracy		mm	±20
	10.17	Battery type			Li-ion battery

If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.



Option

OPTIONS	EXP15 V26
Fork length	○1000●1150○1220○1350○1400○1500
Fork width	●540○600○685
Lowered height	●82
Load wheel type	●Double○Single
Load wheel material	●PU
Drive wheel material	●PU
Battery capacity	●60AH
Charger	●24V-20A External
Battery indicator	●With hourmeter
Castor wheels	●Yes and not customized
Vertical handle: Creep speed	●Yes and not customized
Drive assembly	●Large wheel unit
Tiller head	●Double-grip large tiller
Note： ●Standard ○Optional -Inconformity	