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**PUMA LIFT**<sup>®</sup>

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# SPECIFICATION CATALOGUE

**25**  
YEARS OF  
EXPERIENCE

**PUMA LIFT TRUCKS**

**HEAD OFFICE**

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**2018**  
02

**EP**

**ELECTRIC PALLET TRUCK**

## EP-25

Electric Pallet Truck (2500 Kg, 3000 Kg, 5000 kg)



- ❑ 24 Volt 3-Phase AC Technology for high performances and excellent reliability.
- ❑ Excellent travel stability.
- ❑ Multi - Shift operation due to side battery extraction.
- ❑ Ideal for continuous use and heavy load applications due to robust chassis design.
- ❑ Proven reliable for lower operating costs.
- ❑ Preferred by more operators .



## CRADLE VERSION



# Build to handle anything.



Life's tough for walkie pallet trucks. They must maneuver in tight spaces, withstand impacts, deliver power on demand and give operators controlled performance

### Rugged.

The EP 25 Series is designed and built by puma lift to be the most rugged walkie pallet truck. Superior steel construction, highly engineered stability systems and exceptional fork design and up to toughness you can feel.

### Reliable.

With Puma AC traction systems, users experience unmatched reliability and performance. Features such as e-Gen braking and a two - Year Supplemental Power unit and Fork weldment Guarantee. make the Ep25 Series the clear choice.

### Preferred.

The EP 25 Series is preferred by operators hands down, With our tiller handle, superior stability and numerous operator - friendly features, the EP Series makes pallet handling easier than ever. That's why we sell more trucks than by other brand.

Walkie pallet trucks are put to the test everyday in the most demanding applications. That's why you need the EP-25 Series - the workhorse of the warehouse.

## SPECIAL





## Performance

- The innovative A C system offers quick response, accurate control, impact structure, excellent performance, longer battery service life.
- AC motor specially designed provided stronger power to keep high speed (6km/H) with full load, and enhanced grade ability, make more efficient performance under high capacity situation.
- World-class hydraulic power pack, with low noise, few vibration and excellent leak tightness, automatically adjusts the rate of decline whether loaded or unloaded, and ensures smooth lifting
- High-strength frame design, suitable for tough workplace, ensures longer service life.
- Excellent performance of getting in and of empty pallet, greatly increases the operation efficiency
- European connectors with top quality, prevents moisture and contaminants from interrupting truck operation in all environments, plus all the wires and cables reliably protected and fixed, greatly reduces the electrical error

## Hydraulic System

- The Puma unique suspension Driving Floating Adjustable system design, ensures the truck less, vibration, stable, no tilt while turning in high speed, guarantees the operator's accurate operator to handle freely and easily with full load, and could adjust operating force of handle to ease
- A compact 3kw pump and motor unit allows short lift times-even when fully laden, -providing high handling capacity
- On reaching the maximum lift the pump is automatically bypass reducing the energy consumption and servicing costs by 10-20%, depending on the application. The maximum pressure valve protects the truck from damage caused by overloads

## Serviceability

- Open-piece lightweight service access top cover- conveniently bolt on and off for easy access to all major and key components, reducing service time inspection
- Vertical motor ensures convenience inspection and maintenance of motor and brake much better maintainability than horizontal motor
- Brushless AC Drive Motor, high reliability and performance and drastically reduces maintenance time and labor
- Self-Diagnostics provided through the digital display allow easy troubleshooting with the use of an external hand-held analyzer.
- Hourmeter and BDI (Battery Discharge Indicator) enable the operator to timely recharge
- Utilizing as many interchangeable parts as possible, much reduces maintenance cost
- Battery side/Top opened box will be easy for Battery Change

## Instrumentation

- A quick disconnect power cut-out button is positioned on the dashboard as well as a combined hour-meter and battery discharge indicator

## Rugged

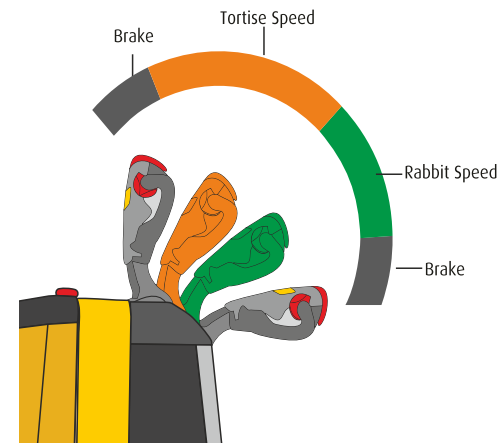
- The ES Series is designed and built by PUMA LIFT to be the most rugged walkie stacker, Superior steel construction, highly engineered stability systems and exceptional fork design add up to toughness you can feel

## Tiller

- The shape of the tiller together with its ergonomic grip and buttons facilitates easy operation.
- The tiller's shape is designed to ensure the best possible operating position in even the tightest spaces.
- The new tiller greatly reduces operator fatigue. When released the tiller will reposition itself to its vertical position.

## Drive

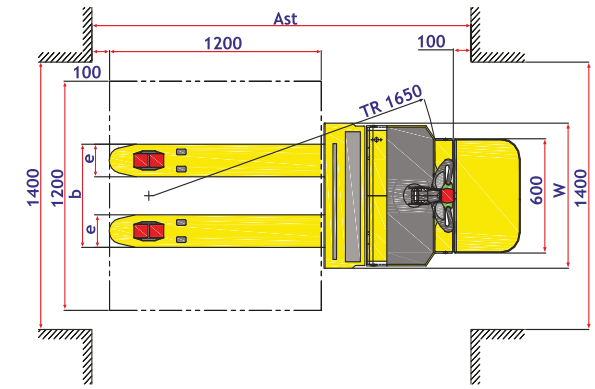
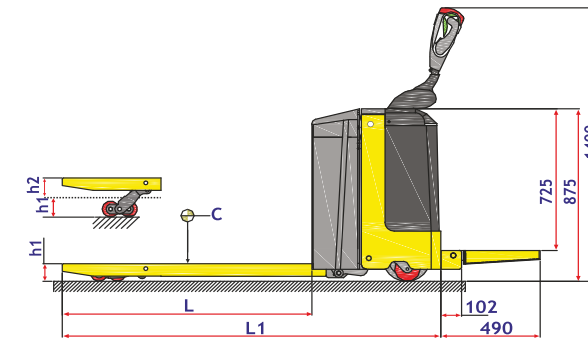
- Excellent disability is adaptable to demand thanks to two drive programmers, ECO and BOOST (two positions on the Tiller head).
- In "ECO" mode (Tortoise speed), the motor runs at its normal characteristics i.e. it draws a lower current and accelerates smoothly up to 4km/hr. This gives a competitive operating period per battery charge.
- In "BOOST" mode (Rabbit Speed), the motor runs in a higher power range and offers very high torque and faster acceleration to a higher top speed of 6km/hr, even when fully laden and regardless of gradient



- The truck automatically brakes when the drive switch is released. When this happens - or when the driver applies the brakes - the AC motor acts as a generator and the kinetic energy which would otherwise be lost is recovered and stored in the battery.
- When stationary on a ramp, or when the drive with is released, the controller monitors every rolling movement of the truck and prevents uncontrolled rolling back by applying the brake.

## Innovative AC Technology

- The AC motor provides increased efficiency with reduced operating costs over the entire lifespan of the truck and has the following advantages
- High efficiency with excellent energy management
- Powerful acceleration with a fully rated load
- Step-less regulation of travel speed using the butterfly direction selector switch
- Quick direction change with no "Waiting" time
- Maintenance free drive motor (no carbon brushed)
- High travel comfort with easy and individually adjustable performance parameters (Set by service engineer) to provide the greatest productivity in particular applications.



## Characteristics

		EP25	EP30	EP35	EP50
1.1 Model		EP25	EP30	EP35	EP50
1.2 Drive unit		Battery	Battery	Battery	Battery
1.3 Operator type		Ride	Ride	Ride	Ride
1.4 Load capacity	Q (kg)	2500	3000	3500	5000
1.5 Load center	c (mm)	600	600	600	600

## Weights

2.1 Service weight (Incl. battery)	kg	780	780	-	-
Wheels, Chassis					
3.1 Tyre type		PU	PU	PU	PU
3.2 Wheels, Drive, Supports, load side		1+2+4	1+2+4	1+2+4	1+2+4

## Dimensions

4.1 Lift height	h2 (mm)	110	110	110	110
4.2 Fork height, lowered	h1 (mm)	90	90	90	90
4.3 Overall length	L1 (mm)	1845+490	1845+490	1880+490	1880+490
4.4 Overall width	w (mm)	850	850	880	880
4.5 Fork dimensions	e (mm)	170x1215	170x1215	170x1215	170x1215
4.6 Fork spread, min/ max	b (mm)	540/ 685	540/ 685	540/ 685	685
4.7 Aisle width, 1000x1200 pallet crossways	Ast (mm)	2150	2150	2150	2150
4.8 Outer turning radius	TR (mm)	1650	1650	1650	1650

## Performance

5.1 Travel speed, laden/ unladen	km/ h	05 / 06	05 / 06	05 / 06	05 / 06
5.2 Lifting speed, laden/ unladen	sec	4/3 sec	4/3 sec	4/3 sec	4/3 sec
5.3 Lowering speed, laden/ unladen	sec	6/9 sec	6/9 sec	6/9 sec	6/9 sec
5.4 Maximum gradeability, laden/ unladen S2 5 min.	%	8/15	8/15	8/15	8/15
5.5 Service brake		Electromagnetic			

## Drive

6.1 Drive motor rating S2 60 min.	kW	1.2	1.2	1.6	2.6
6.2 Lift motor rating at S3 15%	kW	2 k.w	2 k.w	3 k.w	3 k.w
6.3 Battery voltage/ rated capacity (5h)	V/ Ah	24/ 195	24/ 195	24/ 345	24/ 345
6.4 Battery weight (with box)	kg	190 Kgs	190 Kgs	290 Kgs	290 Kgs

## Others

7.1 Type of drive control		MOSFET			
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Note : Forks Length & Width can be alter as per the special requierments

