SPECIALS





| CORE SHAFT (CS) | | | |
|-----------------|--|--|--|
|-----------------|--|--|--|



| ROLLER PLATFORM (SPL) | | |
|-----------------------|--|--|
|-----------------------|--|--|

RS Reach Stacker

The Reach Stacker can be used wherever load arms stackers can not operate. With a compact turning radius and a good manoeuvrability, the truck can operate with ease in $confined \, warehouse \, areas. \, The \, frame \, is \, made \, of \, high-strength \, steel \, components \, with \, extremely \, good \, torsional \, rigidity \, and \, provides \, easy \, access \, for \, servicing \, work.$ Easy to operate and economical to buy. It is the ideal solution for short-distance operation and medium lifting heights. Drive and lifting electrical motors are designed for high



| SPECIFICATIONS | | | | | | | |
|------------------------------------|----------|--------------------------------|--|--|--|--|--|
| Parameters | Unit | Specification | | | | | |
| Basic Capacity | Kg's | 1000 | | | | | |
| Mast | | Telescopic | | | | | |
| Load Center | mm | 600 | | | | | |
| Fork Size (L x W) | mm | 1150 x (250 to 685) adjustable | | | | | |
| Each Fork Width | mm | 100 | | | | | |
| Overall Length | mm | 2550 + 490 | | | | | |
| Overall Width | mm | 950 | | | | | |
| Outer Turning Radius without P/F & | mm | 1800 | | | | | |
| Reach Length | mm | 500 | | | | | |
| Working Aisle in b/w Racks (W/F) | mm | 3000 mm | | | | | |
| Capacity at Full Height | Kg's | 1000 Kg | | | | | |
| Drive Motor-AC | V/Kw | 24 x 1.6 | | | | | |
| Hydraulic Pump Motor | V/Kw | 24 x 3 | | | | | |
| Battery | DC, V/Ah | 24 x195 / 345 | | | | | |
| Brake | | Electromagnetic | | | | | |
| Drive Control | | Mosfet | | | | | |
| Gradability Laden / Unladen | % | 4 / 6 | | | | | |
| Travel Speed Laden / Unladen | Km/hr | 3 / 4 | | | | | |
| Polyurethane Drive Wheel | mm | 230 | | | | | |
| Polyurethane Support Wheels | mm | 150 | | | | | |
| Polyurethane Load Wheels | mm | 250 | | | | | |
| | | | | | | | |

| 1 oryanethane support whiceis | | | | | | | | | | |
|-------------------------------|--------------------|------------------------|-------------------|--|--|--|--|--|--|--|
| Polyurethane Load Wheels mm | | | | | | | | | | |
| | | | | | | | | | | |
| MONO & TELESCOPIC MAST | | | | | | | | | | |
| Lift Height (H1) mm | Type of mast | Shut Height (H2) | EX-Height (H3) | | | | | | | |
| 1600 | М | 2125 | - | | | | | | | |
| 2000 | Т | 1650 | 2525 | | | | | | | |
| 2850 | Т | 2100 | 3520 | | | | | | | |
| 3200 | Т | 2250 | 3845 | | | | | | | |
| 3600 | T | 2450 | 4245 | | | | | | | |
| 4000 | Т | 2650 | 4645 | | | | | | | |

Chassis & Mast

- Rounded contours, no sharp edges
- Highly resistant, robust steel construction
- Rigid clear view mast optimizes visibility
- Wide choice of masts

Dependability

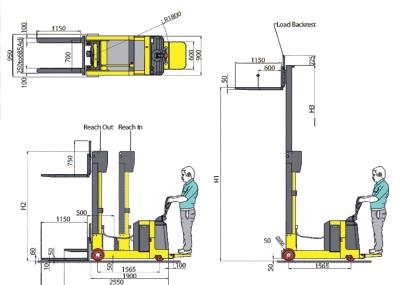
- Tough counterbalance performance.
- Comprehensive selection of mast configurations.
- Compact chassis design improves handling in confined spaces.
- Regenerative braking and anti-roll back as standard.
- Adjustable performance settings to suit specific operating conditions.

- Powerful AC traction motor provides superior performance and increased load moves
- Increased load moves per hour reduces operating costs
- Hour meter and battery discharge indicator with lift interrupt fitted as standard.
- Electrical system and wiring are protected to EU standards, ensuring greater reliability over time

Braking System

- Automatic braking
- On releasing the traction butterfly, with no energy consumption
- By selecting opposite direction of travel
- Emergency brake
- Electro-Magnetic
- On pressing the emergency button

- Powerful battery of 24V,195/ 345Ah
- Efficient battery locking system for side change option secures battery in
- Battery rollers.
- Battery discharge indicator
- Lift lock when the battery is at low charge for longer life time















PUMA LIFT TRUCKS



PUMA LIFT TRUCKS PVT. LTD.

Plot No. 265/1B & A-69 (KSSIDC), Bommasandra Industrial Area, Bengaluru - 560 099, INDIA Telefax: +91-80-2783 4455 / 5785 / 6085 / 6088 / 6555 E-mail: info@pumalift.net Website: www.pumalift.net

BRANCHES

| Ahmedabad | : | ahmedabad@pumalift.net | Goa | : | goa@pumalift.net | Kolkata | : | kolkata@pumalift.net |
|------------|---|-------------------------|-------------------|---|-------------------------|-------------|---|--------------------------|
| Baroda | : | baroda@pumalift.net | Hyderabad | : | hyderabad@pumalift.net | Mumbai | : | mumbai@pumalift.net |
| Chandigarh | : | chandigarh@pumalift.net | Indore | : | indore@pumalift.net | Pune | : | pune@pumalift.net |
| Chennai | : | chennai@pumalift.net | Jamshedpur | : | jamshedpur@pumalift.net | Rajkot | : | rajkot@pumalift.net |
| Delhi | : | delhi@pumalift.net | Kanpur | : | kanpur@pumalift.net | Vapi | : | vapi@pumalift.net |
| Dubai | : | dubai@pumalift.net | Kerala/Coimbatore | : | coimbatore@pumalift.net | Uttarakhand | : | uttarakhand@pumalift.net |
| | | | | | | | | |

- 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.
- Word-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
- 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.

Servicebility

- Open-piece lightweight service access top cover conveniently bolt on and off for easy access to all major and key components, reducing service time
- 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 radius maintenance time and labour.
- Self Diagnostics provided through the digital display allow easy troubleshooting with the use of an external hand-held analyser.
- Hour meter and BDI (Battery Discharge Indicator) enable the operator to timely
- 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.

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.







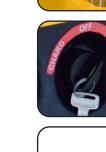




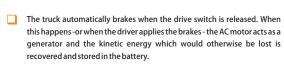


- The innovative A C system offers quick response, accurate control, impact
 - The tiller's shape is designed to ensure the best possible operating
 - The new tiller greatly reduces operator fatigue. When released the tiller will reposition itself to its vertical position.

- 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 4 km/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 6 km/hr, even when fully laden and regardless of gradient.









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
- 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.



Electric Stacker - Standard Version

Model

ES-10/12/15/20

| | | | | | | | | р | | |
|------------------------|------------|-----------------------|----------|---------------------------|-------|-------|-------|-----|--|--|
| MONO & TELESCOPIC MAST | | | | | | | | | | |
| Lift | Туре | Lowered | Extended | Capacity at 600 mm L.C Kg | | | | | | |
| Height (h3) mm | of Mast | mast Height (h1)mm | (h4) mm | ES-10 | ES-12 | ES-15 | ES-20 | | | |
| 1600 | М | 2000 | - | 1000 | 1200 | 1500 | 2000 | | | |
| 2850 | T | 2005 | 3375 | - | 1050 | 1150 | - | Mod | | |

ES-10/12/15/20 suits almost all diverse industrial work environments be it narrow aisles or busy gangways. The unique compact design and the small turning radius makes it a userfriendly machine. Perfect solution for various transport distances and lift height. Whether for short distances solely in pedestrian mode, medium distances with combined pedestrian / rider operation or long distances with rider operation. Capacities of 1000 to 2000 kg and a range of lift heights of up to 3600 mm to suit varied operations. (Mono &Telescopic Masts).

| 1600 2850 | M | | - | 1000 | 1200 | 1500 | 2000 | | | | | | |
|--------------|----|--|----------|------------|------------|------|------|---|--------------|-------------|-------------|-------------|-------------|
| 2850 | | 2000 | | | | | | | | | | | |
| | T | 2005 | 3375 | - | 1050 | 1150 | - | Model | | ES - 10 | ES - 12 | ES - 15 | ES - 20 |
| 3600 | T | 2390 | 4135 | - | 790 | 890 | - | Capacity / Load | (kg) | 1000 | 1200 | 1500 | 2000 |
| 4200 | T | 2690 | 4725 | - | 700 | 800 | - | Load Center C | (mm) | 600 | 600 | 600 | 600 |
| | | | | | | | | Mast Type | | M/T | M/T | M/T | М |
| | | | | | | | | Support Wheel | () | 150X50 | 150X50 | 150X50 | 150X50 |
| | | | | | | _ | | Drive Wheel | (mm) | 230X70 | 230X70 | 230X70 | 230X70 |
| | | | | | | | | Load Wheel | (mm) | 70X80 | 70X80 | 70X80 | 70X80 |
| | | | | | 4 | | | Overall Length (L3) | (mm) | | | 2055+490 | |
| | | | - 3 | | 2 | 1 | | Overall width (b) | (mm) (mm) | 850 1150 | 850 1150 | 850 1150 | 850 1150 |
| | | | | | | | | Fork Length (L) Each Fork width (e) | (mm) | 182 | 182 | 182 | 182 |
| | | | | | i i | 32 % | | Overall fork width (b5) | (mm) | 560/685 | 560/685 | 560/685 | 560/685 |
| | | | 1 | | | | | | | | | | 30 |
| | | | | | | | | Ground Clearance Outer turning radius (R) | (mm) (mm) | 30 1700 | 30 1700 | 30 1700 | 1700 |
| | | | | | | | | Working aisle in between racks | (mm) | 2650 | 2650 | 2650 | 2650 |
| | | | | | | | | Max Travel Speed unladen/laden | km/h | 06 / 05 | 06 / 05 | 06 / 05 | 06 / 05 |
| | | | | 200 | A | | | Lifting Speed unladen/laden | m/sec | 0.14/0.08 | 0.14/0.08 | 0.14/0.08 | |
| | - | | | | ,9 | | | Lowering Speed unladen/laden | m/sec | | | 0.17/0.24 | |
| | CE | | | | | | | Gradeability unladen/laden | % | | | 08% / 06% | |
| | | | | | | | | Brakes | 24V | | ctro Magne | | 007070070 |
| | | | | | | | | Drive motor | KW | 1.2 | 1.2 | 1.6 | 1.6 |
| | | 4 | | | | | | Type of controller | 24V | | Mosfet | | |
| | | The same of the sa | | 5 | | 3/ | | ∄ | | Ast | | | |
| | | A | S | | ays option | al | • | 1900 | | Ast | 2.7 | 100 | 00F1 |
| | | | S | rm is alwa | nys option | al | | Summing Summing | | Ast | Telesco | 700 | 009 |

Electric Stacker - 'W' Version

Model

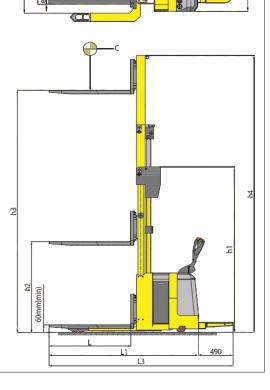
The 'W' version can easily handle all types of non-standard loads and pallets, ensuring this are the extra large support legs and the Adjustable forks between them, enabling it to stack heavier loads at higher lifts. ES-12W FFTL / 15W FFTL The inner to Inner width between the support legs is decided by the type of load and size of the pallet. Standard widths are offered between 700mm to 1300mm. The safety angle is not compromised by the adjustable solid forged forks in assuming flexibility of the stacker while handling varying widths of loads. Maximum fork length of 1600mm can be provided on 'W' Version. The carriage in 'W' Version is a special Hook- on type. The Standard width is 685mm but a special width between 600 to 1400mm is also available.



| Model | | ES - 10 W | ES - 12 W | ES - 12 W FFTL | ES - 15 W FFTL |
|--------------------------------|-------|-------------|-------------|----------------|----------------|
| Capacity / Load | (kg) | 1000 | 1200 | 1200 | 1500 |
| Load Center C | (mm) | 600 | 600 | 600 | 600 |
| Mast Type | | M/T | M/T | FFTL | FFTL |
| Support Wheel | | 150X50 | 150X50 | 150X50 | 150X50 |
| Drive Wheel | (mm) | 230X70 | 230X70 | 230X70 | 230X70 |
| Load Wheel | (mm) | 70X80 | 70X80 | 70X80 | 70X80 |
| Overall Length (L3) | (mm) | 2055+490 | 2055+490 | 2090+490 | 2090+490 |
| Overall width (b) | (mm) | 900 to 1500 | 900 to 1500 | 900 to 1500 | 900 to 1500 |
| Fork Length (L) | (mm) | 1150 | 1150 | 1150 | 1150 |
| Each Fork width (e) | (mm) | 100x40 | 100x40 | 100x40 | 100x40 |
| Overall fork width (b5) | (mm) | 350 to 685 | 350 to 685 | 350 to 685 | 350 to 685 |
| Ground Clearance | (mm) | 30 | 30 | 30 | 30 |
| Outer turning radius (R) | (mm) | 1700 | 1700 | 1715 | 1715 |
| Working aisle in between racks | (mm) | 2800 | 2800 | 2800 | 2800 |
| Max Travel Speed unladen/laden | km/h | 06/05 | 06/05 | 06/05 | 06/05 |
| Lifting Speed unladen/laden | m/sec | 0.14/0.08 | 0.14/0.08 | 0.14/0.08 | 0.14/0.08 |
| Lowering Speed unladen/laden | m/sec | 0.17/0.24 | 0.17/0.24 | 0.17/0.24 | 0.17/0.24 |
| Gradeability unladen/laden | % | 08% / 06% | 08% / 06% | 08% / 06% | 08% / 06% |
| Brakes | 24V | | Electro | Magnetic | |
| Drive motor | KW | 1.2 | 1.2 | 1.6 | 1.6 |
| Type of controller | 24V | | Мо | sfet | |

| MONO AND TELESCOPIC MAST W-VERSION | | | | | | | | | | |
|------------------------------------|------|---------|----------------------|---------------------------|--------|--|--|--|--|--|
| Lift Type Height of | | Lowered | Extended mast height | Capacity at 600 mm L.C Kg | | | | | | |
| Height (h3) mm | Mast | (h1)mm | (h4) mm | ES-12W | ES-15W | | | | | |
| 1600 | М | 2000 | - | 1200 | 1500 | | | | | |
| 2850 | Т | 2005 | 3375 | 1050 | 1250 | | | | | |
| 3600 | Т | 2390 | 4135 | 1000 | 1150 | | | | | |
| 4200 | Т | 2690 | 4725 | - | 890 | | | | | |

| | FULL FREE TRIPLE LIFT MAST - W VERSION | | | | | | | | | | |
|-----------|--|--------|---------|--------------|---------------------------|------------|--|--|--|--|--|
| ft ght | Type of | | | Free Lift | Capacity at 600 mm L.C Kg | | | | | | |
| mm | Mast | (h1)mm | (h4) mm | (h2) mm | ES-12WFFTL | ES-15WFFTL | | | | | |
| 00 | FFTL | 1825 | 4125 | 1350 | 1200 | 1500 | | | | | |
| 00 | FFTL | 2025 | 4725 | 1550 | 1150 | 1350 | | | | | |
| 00 | FFTL | 2455 | 5625 | 1980 | 1050 | 1250 | | | | | |
| 00 | FFTL | 2655 | 6225 | 2180 | 870 | 1100 | | | | | |
| 00 | FFTL | 2755 | 6525 | 2275 | 750 | 860 | | | | | |



Electric Stacker - Full Free Triple Mast / Side Stabilizers Version

Model

ES-12/15/ SS FFTL

Stackers with telescopic masts are not suggested for use in low ceiling conditions. A mono mast may be a suitable solutions but the situation may warrant a higher lifting capacity stacker. The conditions may demand a full lift or a full free triple lift mast to be used. The variations of the stacker make it an ideal machine to be used in challenging conditions like in a container or lifts. The lift is achieved in three - stage arrangement the primary cylinder achieves the first stage and two side mentioned secondary cylinders achieve the second and the third stages, at the end of the first stage the height to the stacker is not affected and this is known as free lift. $FFTL \, Version \, with \, high \, lift \, and \, low \, shut \, heights \, are \, made \, suitable \, for \, almost \, all \, applications.$



Free Capacity at 600 mm L.C Kg

2855 6825 2330

6300 FFTL

920

| pacity / Load | (kg) | 1200 | 1500 |
|-------------------------------|-------|-----------|-----------|
| ad Center C | (mm) | 600 | 600 |
| ast Type | | FFTL | FFTL |
| pport Wheel | | 150X50 | 150X50 |
| ive Wheel | (mm) | 230X70 | 230X70 |
| ad Wheel | (mm) | 70X80 | 70X80 |
| erall Length (L3) | (mm) | 2090+490 | 2090+490 |
| erall width (b) | (mm) | 850 | 850 |
| erall width (SS Closed) b | (mm) | 1000 | 1000 |
| erall width (SS Open) b | (mm) | 1310 | 1310 |
| rk Length (L) | (mm) | 1150 | 1150 |
| ch Fork width (e) | (mm) | 182 | 182 |
| erall fork width (b5) | (mm) | 560/685 | 560/685 |
| ound Clearance | (mm) | 30 | 30 |
| ter turning radius (R) | (mm) | 1715 | 1715 |
| orking aisle in between racks | (mm) | 2800 | 2800 |
| x Travel Speed unladen/laden | km/h | 06 / 05 | 06 / 05 |
| ting Speed unladen/laden | m/sec | 0.14/0.08 | 0.14/0.08 |
| wering Speed unladen/laden | m/sec | 0.17/0.24 | 0.17/0.24 |
| adeability unladen/laden | % | 08% / 06% | 08% / 06% |
| akes | 24V | Electro M | lagnetic |
| ive motor | KW | 1.6 | 1.6 |
| pe of controller | 24V | Mos | fet |
| | s | | |
| 100 | | | |

