



ES12-12CS ES15-15CS Electric Stacker 1.2/1.5t

Counterbalance Stackers, Better for Non-standardized Pallets.
Electric Steering System Makes the Operations Much Easier.

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

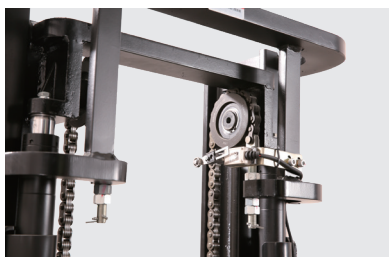


FEATURE



Performance

- The innovative AC system offers strong power, accurate control, excellent performance.
- High strength vertical gearbox, longer working life.
- Low-noise but durable hydraulic unit, good quality cylinder as well as hose ensure the high reliability of hydraulic system.
- AMP connector and durable electric wires greatly reduce malfunctions of components.
- High strength chassis enhances the reliability and durability of the truck.
- Standard featured tilt mast cylinder design and controller monitoring the tilt speed smoothly and ensures safe performance.
- Heavy duty load wheel ensures stability.
- Compact design with small turning radius requirements.



Safety

- Safe hydraulic system design prevents mast from falling down abruptly when hydraulic pipeline cuts off.
- Emergency reverse belly button protects the operator from getting hurt.
- Emergency disconnecter will cut off power source to avoid accident when truck goes out of control.
- Multiple lifting limit protection ensures safety.
- Automatic switch to lower speed when the fork reaches its setting height.
- Anti-rolling back brake keeps the truck from skidding down when truck is out of control or travelling on ramp.
- Dual-monitoring power steering.

Operation

- With the new design of ergonomical tiller head, all buttons can be reached conveniently & comfortably.
- Foldable platform reduces vibration which makes operator feel more comfortable.
- When platform folded, truck can work at low speed in smaller space.
- Adjustable forks, suitable for complicated pallets or cargos.
- Tilting as standard configuration, make operation easier.
- Side-open battery design for easy battery replacement and various applications.
- Electric power steering, smooth & comfortable (EPS).

Maintenance

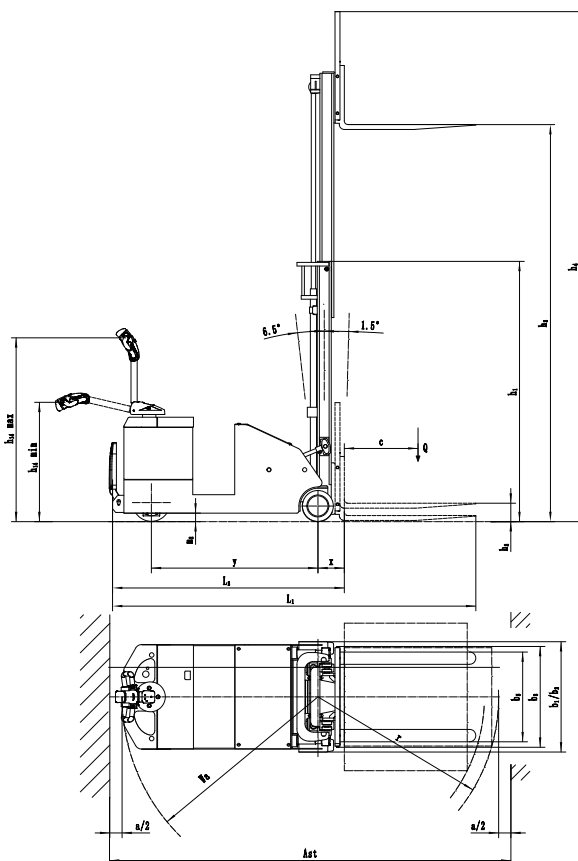
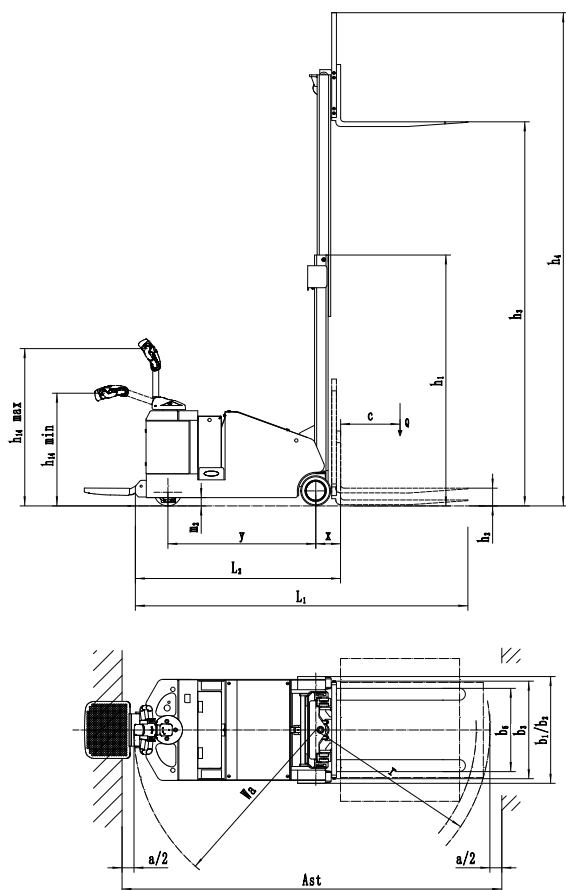
- AC traction motor, maintenance free.
- Hour meter and battery indicator will remind the operator to recharge the battery.
- Easily remove the back cover by only losing four bolts; Access to all key components for inspection, maintenance and replacement.
- Press-on load wheel reduces the maintenance cost.
- Vertical motor makes the inspection & service much more convenient.
- Control system allows easy trouble-shooting.
- Mast and chassis are assembled together, easy for maintenance.
- Low voltage cut off setting protects batteries.

Electric Stacker 1.2/1.5t

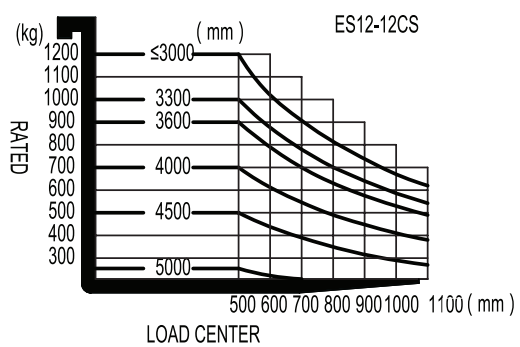
ES12-12CS/ES15-15CS

| Distinguishing mark | | | | | |
|---------------------|---|--------------------------------|-------|---------------------------|-----------------|
| 1.1 | Manufacturer | | | EP | EP |
| 1.2 | Model designation | | | ES12-12CS | ES15-15CS |
| 1.3 | Drive unit | | | Electrics | Electrics |
| 1.4 | Operator type | | | standing | standing |
| 1.5 | rated capacity | Q | kg | 1200 | 1500 |
| 1.6 | Load center distance | c | mm | 500 | 600 |
| 1.8 | Load distance, centre of drive axle to fork | x | mm | 208 | 215 |
| 1.9 | Wheelbase | y | mm | 1244 | 1355 |
| Weight | | | | | |
| 2.1 | Service weight (include battery) | | kg | 1860 | 2420 |
| 2.2 | Axle loading, laden driving side/loading side | | kg | 375/2685 | 510/3410 |
| 2.3 | Axle loading, unladen driving side/loading side | | kg | 1060/800 | 1430/990 |
| Types,Chassis | | | | | |
| 3.1 | Tyre type Driving wheels/Loading wheels | | | polyurethane/polyurethane | PU/PU |
| 3.2 | Tyre size, driving wheels (diameter×width) | | mm | Φ230×75 | Φ260×105 |
| 3.3 | Tyre size, loading wheels (diameter×width) | | mm | Φ254×102 | Φ254×102 |
| 3.4 | Tyre size, caster wheels (diameter×width) | | mm | / | / |
| 3.5 | Wheels, number driving, caster/loading (x=drive wheels) | | mm | 1x, 0/2 | 1x, 0/2 |
| 3.6 | Track width, front,driving side | b ₁₀ | mm | 787 | 787 |
| 3.7 | Track width,rear,loading side | b ₁₁ | mm | / | / |
| Dimensions | | | | | |
| 4.1 | Tilt of mast/fork carriage forward/backward | α/β | ° | 1.5/6 | 1.5/6 |
| 4.2 | Height, mast lowered | h ₁ | mm | 2110 | 2118 |
| 4.3 | Free lift | h ₂ | mm | 150 | 150 |
| 4.4 | Lift height | h ₃ | mm | 3330 | 3200 |
| 4.5 | Height, mast extended | h ₄ | mm | 4185 | 4115 |
| 4.9 | Height drawbar in driving position min./max. | h ₁₄ | mm | 1013/1402 | 1013/1402 |
| 4.10 | Height of wheel arms | h ₈ | mm | 282 | 282 |
| 4.19 | Overall length | l ₁ | mm | 2835 | 2985 |
| 4.20 | Length to face of forks | l ₂ | mm | 1738 | 1915 |
| 4.21 | Overall width | b ₁ /b ₂ | mm | 850/900 | 850/900 |
| 4.22 | Fork dimensions | s/e/l | mm | 40/100/1070 | 40/100/1070 |
| 4.24 | Fork carriage width | b ₃ | mm | 800 | 800 |
| 4.25 | Outside width of the forks | b ₅ | mm | 200-760 | 200-760 |
| 4.31 | Ground clearance, laden, below mast | m ₁ | mm | 78 | 78 |
| 4.32 | Ground clearance, center of wheelbase | m ₂ | mm | 70 | 70 |
| 4.34.1 | Aisle width for pallets 1000 × 1200 crossways | Ast | mm | 3085 | 3270 |
| 4.34.2 | Aisle width for pallets 800 × 1200 lengthways | Ast | mm | 3200 | 3385 |
| 4.35 | Turning radius | Wa | mm | 1535 | 1715 |
| Performance data | | | | | |
| 5.1 | Travel speed, laden/ unladen | | km/h | 5.5/6.0 | 4.65 |
| 5.2 | Lifting speed, laden/ unladen | | m/s | 0.127/0.23 | 0.12/0.17 |
| 5.3 | Lowering speed, laden/ unladen | | m/s | 0.26/0.2 | 0.13/0.1 |
| 5.8 | Max. gradeability, laden/unladen | | % | 5.0/8.0 | 5.0/8.0 |
| 5.10 | Service brake type | | | Electromagnetic | Electromagnetic |
| Electric-engine | | | | | |
| 6.1 | Drive motor rating S2 60 min | | kW | 1.5 | 4 |
| 6.2 | Lift motor rating at S3 15% | | kW | 2.2 | 3 |
| 6.3 | The maximum allowed size battery | | mm | 810/230/open | 810/330/open |
| 6.4 | Battery voltage/nominal capacity K5 | | V/Ah | 24/210 | 24/280 |
| 6.5 | Battery weight | | kg | 190 | 320 |
| Addition data | | | | | |
| 8.1 | Type of drive unit | | | AC | AC |
| 10.5 | Steering type | | | Electronic | Electronic |
| 10.7 | Sound pressure level at the driver's ear | | dB(A) | 74 | 74 |

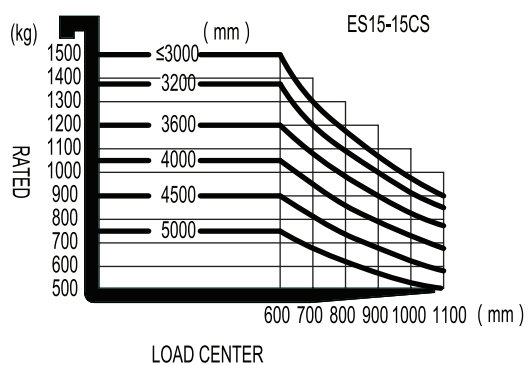
If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.



RATED CAPACITIES GRAPH



RATED CAPACITIES GRAPH



Mast Option

ES12-12CS

| Lift h3 (mm) | mast types | Lowered mast height h1 (mm) | Free lift h2 (mm) | Extended mast height h4 (mm) |
|--------------|------------|-----------------------------|-------------------|------------------------------|
| 2530 | Duplex ZT | 1710 | 150 | 3385 |
| 2730 | | 1810 | 150 | 3585 |
| 3030 | | 1960 | 150 | 3885 |
| 3330 | | 2110 | 150 | 4185 |
| 3630 | | 2260 | 150 | 4485 |
| 3930 | | 2410 | 150 | 4785 |
| 4000 | Triplex DZ | 1822 | 904 | 4915 |
| 4500 | | 2022 | 1104 | 5415 |

ES15-15CS

| Lift h3 (mm) | mast types | Lowered mast height h1 (mm) | Free lift h2 (mm) | Extended mast height h4 (mm) |
|--------------|------------|-----------------------------|-------------------|------------------------------|
| 2640 | Duplex ZT | 1838 | 150 | 3555 |
| 3000 | | 2018 | 150 | 3915 |
| 3200 | | 2118 | 150 | 4115 |
| 3590 | | 2303 | 150 | 4505 |
| 4000 | Triplex DZ | 1822 | 907 | 4915 |
| 4500 | | 2022 | 1107 | 5415 |
| 5000 | | 2187 | 1272 | 5915 |

Option

| Options | | ES12-12CS | ES15-15CS |
|---------|--------------------------------------|---------------------------------|----------------------|
| 3 | Fork length | ●1070 | ●1070 |
| 4 | Fork width | ●200-760(Adjustable) | ●200-760(Adjustable) |
| 10 | Driving wheel | ●PU | ●PU |
| 17 | Battery indicator with hour meter | ● | ● |
| 18 | Battery indicator without hour meter | ○ | ○ |
| 19 | Battery capacity | ○280Ah/224Ah (Maintenance-free) | ○360Ah |
| 20 | Lateral change battery | ○ | ○ |
| 22 | Water auto-filling system | ○ | ○ |
| 26 | Proportional lifting | ○ | ○ |
| 27 | Height limitation | ● | ● |
| 30 | Side shift | ○ | ○ |
| 31 | half speed function in turning | ● | ● |

Note: ● standard ○ option — NA