



ES16-16RAS ES20-20RAS

Electric Stacker 1.6/2.0t

Great Option for Heavy Duty & High Stacking Tasks:

High Strength Structure Suits High Racking Applications;

Various Options Such As Foldable Platform, Protection Arm & Power Steering

EP EQUIPMENT CO.,LTD
www.ep-equipment.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.
- H shape channel mast improves the strength of the whole truck.
- High strength chassis enhances the reliability and durability of the truck.
- Innovative Drive floating operation system(DFA) ensures the stability of the truck when steering at high speed.



Safety

- Safe hydraulic system design prevents mast from falling down abruptly when hydraulic pipeline cuts off.
- Full speed will be only available when protection arms are up, low speed mode will be automatically on otherwise.
- Emergency reverse 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 driving.
- The unique suspension driving floating system(DFA) design makes operations easy and comfortable.
- When platform is folded, truck can work at low speed in smaller space.
- Ergonomical and durable protection arm guarantees easy operation, with innovative on/off design.
- Electric power steering, smooth & comfortable (EPS).

Maintenance

- AC traction motor, maintenance free.
- Hour meter and battery indicator remind the operator of battery charging.
- Easily remove the back cover by only loosening four bolts; Access to all key components for inspection, maintenance and replacement.
- Easy access for battery maintenance.
- 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 1.6t

ES16-16RAS

| | | | | | | |
|---------------------|--------|---|-------|-------|-----------------|---------------------|
| Distinguishing mark | 1.1 | Manufacturer | | | EP | EP |
| | 1.2 | Model designation | | | ES16-16RAS | ES16-16RAS (Li-Ion) |
| | 1.3 | Drive | | | Electric | Electric |
| | 1.4 | Operator type | | | Standing | Standing |
| | 1.5 | Load capacity | Q | kg | 1600 | 1600 |
| | 1.6 | Load center distance | c | mm | 600 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x | mm | 693 | 693 |
| | 1.9 | Wheelbase | y | mm | 1394 | 1394 |
| Service weight | 2.1 | Service weight | | kg | 1350 | 1330 |
| | 2.2 | Axle loading, laden front/rear | | kg | 980/1970 | 970/1960 |
| | 2.3 | Axle loading, unladen front/rear | | kg | 950/400 | 940/390 |
| Tyres/chassis | 3.1 | Tyre type | | | Polyurethane | Polyurethane |
| | 3.2.1 | Tyre size, front | | mm | Φ230x75 | Φ230x75 |
| | 3.3.1 | Tyre size, rear | | mm | Φ85x70 | Φ85x70 |
| | 3.4 | Additional wheels (castor wheels) | | mm | Φ130x55 | Φ130x55 |
| | 3.5 | Wheels, number front/rear (x=drive wheels) | | mm | 1x +2/4 | 1x +2/4 |
| | 3.6.1 | Tread width, front | b10 | mm | 634 | 634 |
| | 3.7.1 | Tread width, rear | b11 | mm | 380 | 380 |
| Dimensions | 4.0 | Max. Lift Height | H | mm | 3000 | 3000 |
| | 4.2 | Retracted mast height | h1 | mm | 2020 | 2020 |
| | 4.3 | Free lift | h2 | mm | 100 | 100 |
| | 4.4 | Lift height | h3 | mm | 2912 | 2912 |
| | 4.5 | Height, mast extended | h4 | mm | 3465 | 3465 |
| | 4.6 | Initial lift | h5 | mm | — | — |
| | 4.9 | Height of tiller handle in drive position min./max. | h14 | mm | 1150/1480 | 1150/1480 |
| | 4.10 | Height of wheel arms | h8 | mm | — | — |
| | 4.15 | Lowered height | h13 | mm | 88 | 88 |
| | 4.19 | Overall length | l1 | mm | 2035 | 2035 |
| | 4.20 | Length to face of forks | l2 | mm | 885 | 885 |
| | 4.21 | Overall width | b1/b2 | mm | 850 | 850 |
| | 4.22 | Fork dimensions | s/e/l | mm | 60x190x1150 | 60x190x1150 |
| | 4.24 | Fork carriage width | b3 | mm | — | — |
| | 4.25 | Distance between fork-arms | b5 | mm | 570 | 570 |
| | 4.26 | Distance between wheel arms/loading surfaces | b4 | mm | — | — |
| | 4.31 | Ground clearance, laden, below mast | m1 | mm | — | — |
| | 4.32 | Ground clearance, center of wheelbase | m2 | mm | 28 | 28 |
| | 4.34.1 | Aisle width for pallets 1000×1200 crossways | Ast | mm | 2610/2971 | 2610/2971 |
| | 4.34.2 | Aisle width for pallets 800×1200 crossways | Ast | mm | 2580/2941 | 2580/2941 |
| Performance data | 4.35 | Turning radius | Wa | mm | 1738/2099 | 1738/2099 |
| | 5.1 | Travel speed, laden/unladen | | km/h | 5.5/6.0 | 5.5/6.0 |
| | 5.2 | Lifting speed, laden/unladen | | m/s | 0.13/0.16 | 0.13/0.16 |
| | 5.3 | Lowering speed, laden/unladen | | m/s | 0.32/0.23 | 0.32/0.23 |
| | 5.8 | Max. gradeability, laden/unladen | | % | 8/16 | 8/16 |
| Electric-engine | 5.10 | Service brake | | | Electromagnetic | Electromagnetic |
| | 6.1 | Drive motor rating S2 60 min | | kW | 1.6 | 1.6 |
| | 6.2 | Lift motor rating at S3 15% | | kW | 3.0 | 3.0 |
| | 6.4 | Battery voltage/nominal capacity | | V/Ah | 24/280 | 24/205 |
| | 6.5 | Battery weight | | kg | 240 | 70 |
| Addition data | 8.1 | Type of drive control | | | AC | AC |
| | 10.5 | Steering design | | | Electronic | Electronic |
| | 10.7 | Sound pressure level at the driver's ear | | dB(A) | 74 | 74 |

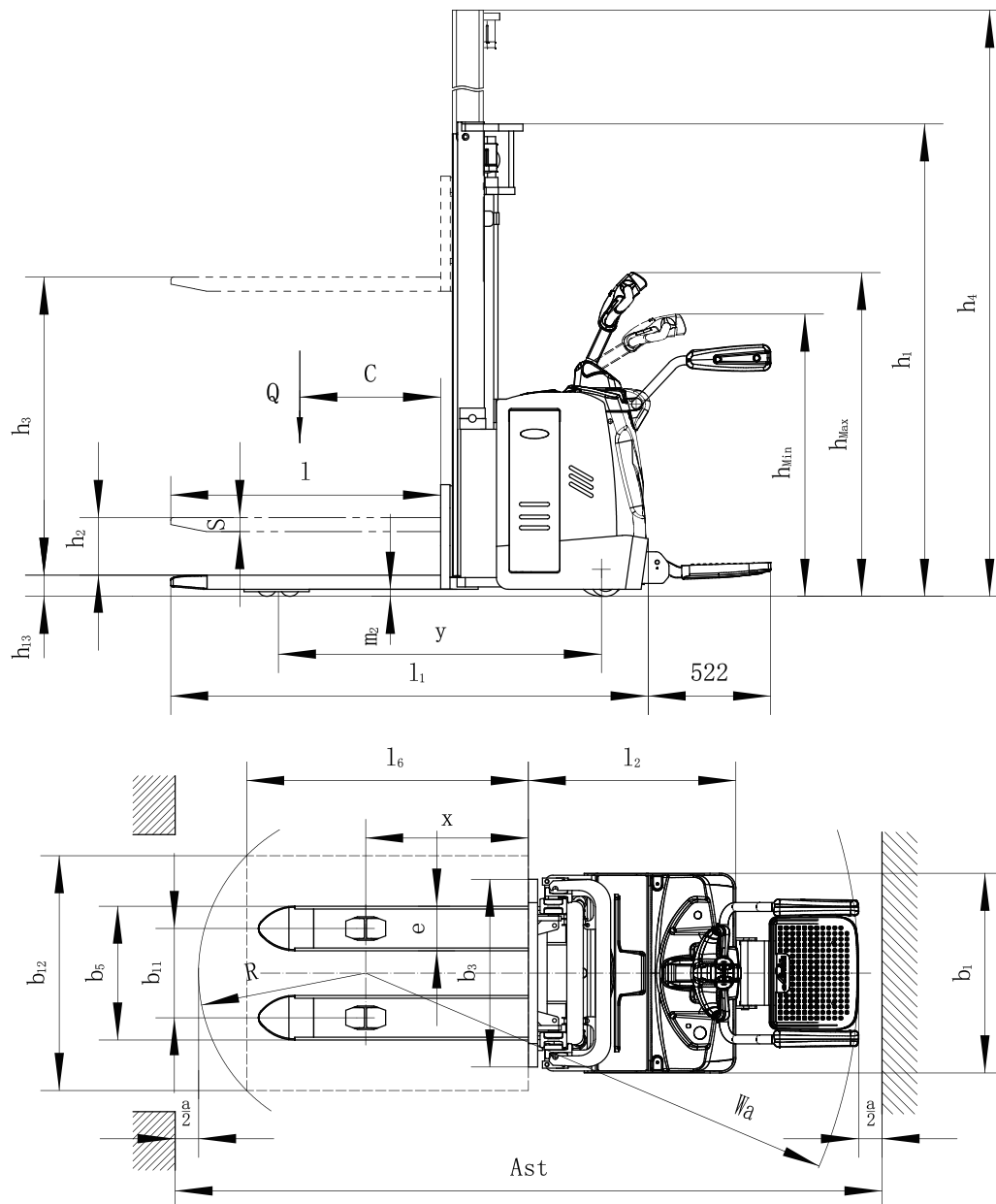
If there are improvements of technical parameters or configurations, no further notice will be given.
The diagram shown may contain non-standard configurations.

Electric Stacker 2.0†

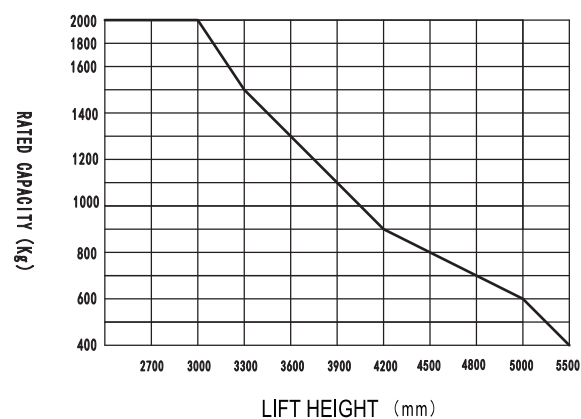
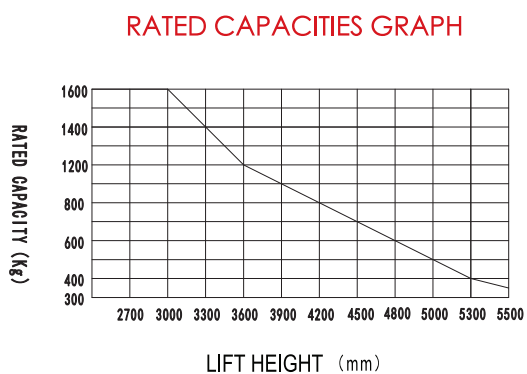
ES20-20RAS

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| | 1.4 | Operator type | | | Standing | Standing |
| | 1.5 | Load capacity | Q | kg | 2000 | 2000 |
| | 1.6 | Load center distance | c | mm | 600 | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x | mm | 693 | 693 |
| | 1.9 | Wheelbase | y | mm | 1394 | 1394 |
| Service weight | 2.1 | Service weight | | kg | 1370 | 1350 |
| | 2.2 | Axle loading, laden front/rear | | kg | 1110/2260 | 1100/2250 |
| | 2.3 | Axle loading, unladen front/rear | | kg | 960/410 | 950/400 |
| Tyres/chassis | 3.1 | Tyre type | | | Polyurethane | Polyurethane |
| | 3.2.1 | Tyre size, front | | mm | Φ230x75 | Φ230x75 |
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| | 5.3 | Lowering speed, laden/unladen | | m/s | 0.32/0.23 | 0.32/0.23 |
| | 5.8 | Max. gradeability, laden/unladen | | % | 8/16 | 8/16 |
| Electric-engine | 5.10 | Service brake | | | Electromagnetic | Electromagnetic |
| | 6.1 | Drive motor rating S2 60 min | | kW | 1.6 | 1.6 |
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| | 10.5 | Steering design | | | Electronic | Electronic |
| | 10.7 | Sound pressure level at the driver's ear | | dB(A) | 74 | 74 |

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RATED CAPACITIES GRAPH



Mast Option

| Mast types | Lift height h3+h13 (mm) | Height, mast lowered h1 (mm) | Free lift h2 (mm) | Height, mast extended h4 (mm) |
|-----------------|----------------------------|---------------------------------|----------------------|----------------------------------|
| 2-Standard Mast | 2700 | 1870 | 100 | 3165 |
| | 3000 | 2020 | 100 | 3465 |
| | 3300 | 2170 | 100 | 3765 |
| | 3600 | 2320 | 100 | 4065 |
| | 3900 | 2470 | 100 | 4365 |
| | 4170 | 2600 | 100 | 4625 |
| 2-Free Mast | 2700 | 1819 | 1320 | 3135 |
| | 3000 | 1969 | 1470 | 3435 |
| | 3300 | 2119 | 1620 | 3735 |
| 3-Free Mast | 4000 | 1822 | 1390 | 4460 |
| | 4500 | 2022 | 1590 | 4960 |
| | 4800 | 2122 | 1690 | 5260 |
| | 5000 | 2187 | 1740 | 5460 |
| | 5300 | 2287 | 1840 | 5760 |
| | 5500 | 2352 | 1910 | 5910 |

Option

| No. | Optional items | ES16-16RAS/ES20-20RAS |
|---|----------------------------|------------------------------------|
| 1.1 | Fork length | ●1150○1220 |
| 1.2 | Fork width | ●570○685 |
| 1.3 | Fork lowered height | ●88 |
| 2.1 | Load wheel type | ●Double |
| 2.2 | Load wheel material | ●PU |
| 2.3 | Drive wheel material | ●PU○Trace PU |
| 2.7 | Battery capacity | ●210Ah○280Ah○360Ah |
| 2.8 | Charger | ●24V-30A External○24V-50A External |
| 2.9 | Battery indicator | ●With time |
| 3.3 | Castor wheels | ● |
| 3.4 | Water auto-filling system | ○ |
| 3.5 | Front lamp | ○LED |
| 3.7 | Warning lamp | ○ |
| 3.9 | Blue lamp | ○ |
| 3.11 | Rearview mirror | ○ |
| 3.12 | Hummer | ○ |
| 4.1 | Battery side pull function | ● |
| 4.2 | Cold storage | ○ |
| 4.5 | Proportional lift system | ○ |
| 4.7 | Overhead guard | ○ |
| Note: ●Standard ○ Optional - Inconformity | | |