



EP
Let's grow together

ES20-WA

Electric Stacker 2.0t

Ideal Choice for Heavy Duty Short Distance Handling and Stacking Tasks;
Long-tiller Design Makes Operations Easy and Convenient;
Long side tiller offers wider view and safer operation.



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.
- CJ shape mast channel improves the strength of the whole truck.



Safety

- Safe hydraulic system design prevents mast from falling down abruptly when hydraulic pipeline cuts off.
- 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.
- Long aside tiller reduces operator's hazards.

Operation

- With the new design of ergonomical tiller head, all buttons can be reached conveniently & comfortably.
- Creep speed function: when tiller is in near vertical position, the driving speed will decrease automatically, allowing delicate operation in confined space.
- Long tiller offers easier operation.
- Aside Operation, Greater View.
- Two-speed lowering offers better stability and accuracy of goods stacking.

Maintenance

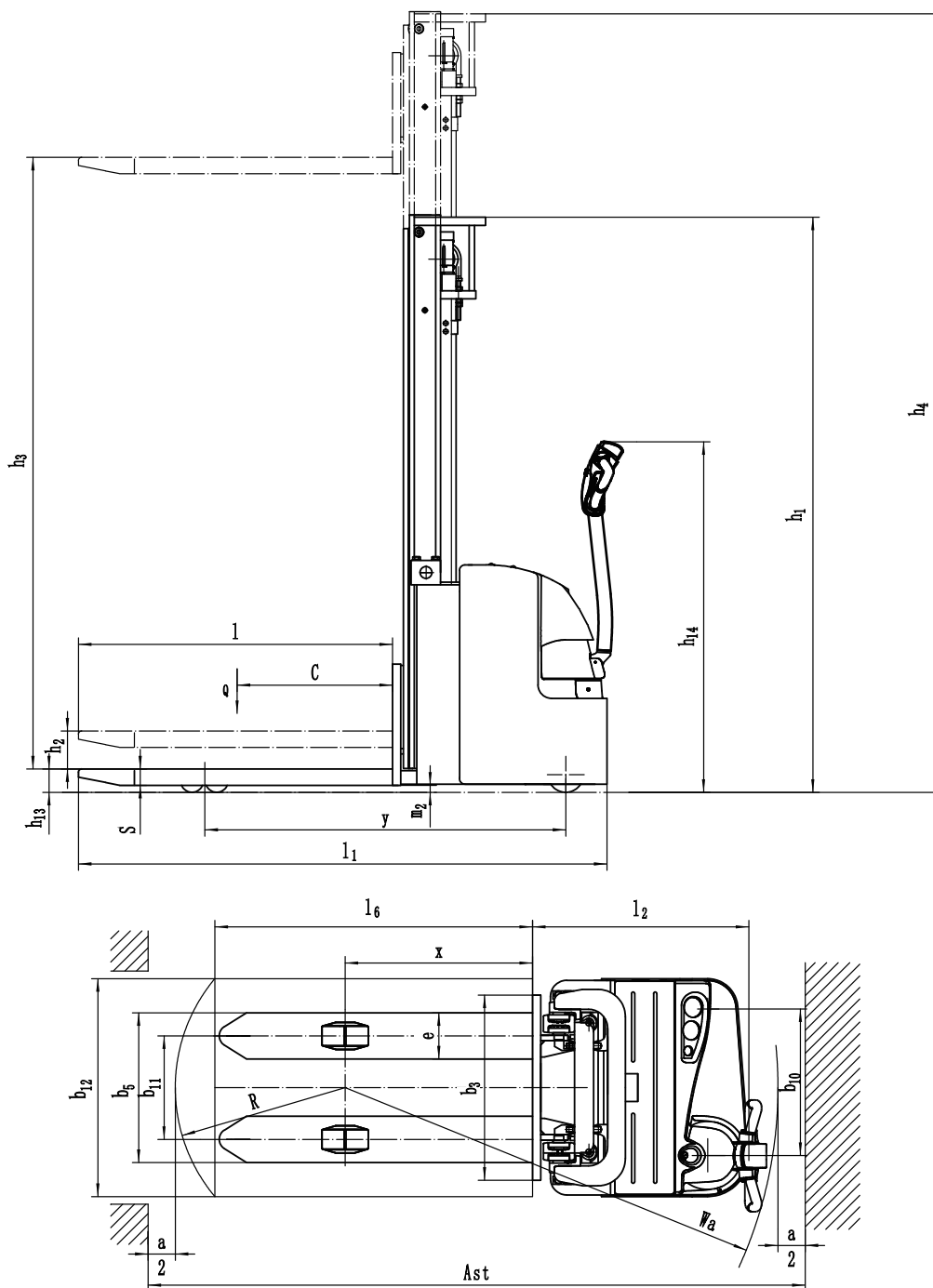
- AC traction motor, maintenance free.
- Hour meter and battery indicator remind the operator of battery charging.
- Back cover can be removed easily ; Access to all key components for inspection, maintenance and replacement.
- Easy access for battery maintenance.
- Vertical motor makes the inspection & 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.

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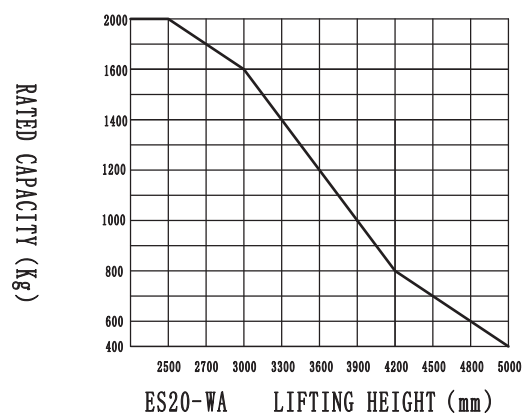
ES20-WA

| | | | | | |
|---------------------|--------|---|-------|-------|-----------------|
| Distinguishing mark | 1.1 | Manufacturer | | | EP |
| | 1.2 | Model designation | | | ES20-WA |
| | 1.3 | Drive | | | Electric |
| | 1.4 | Operator type | | | Pedestrian |
| | 1.5 | Load capacity | Q | kg | 2000 |
| | 1.6 | Load center distance | c | mm | 600 |
| | 1.8 | Load distance, centre of drive axle to fork | x | mm | 693 |
| | 1.9 | Wheelbase | y | mm | 1305 |
| | 2.1 | Service weight | | kg | 1170 |
| Service weight | 2.2 | Axle loading, laden front/rear | | kg | 850/2320 |
| | 2.3 | Axle loading, unladen front/rear | | kg | 780/390 |
| | 3.1 | Tyre type | | | Polyurethane |
| Tyres/chassis | 3.2.1 | Tyre size, front | | mm | Φ230x75 |
| | 3.3.1 | Tyre size, rear | | mm | Φ85x70 |
| | 3.4 | Additional wheels (castor wheels) | | mm | Φ130x55 |
| | 3.5 | Wheels, number front/rear (x=drive wheels) | | mm | 1x +1/4 |
| | 3.6.1 | Tread width, front | b10 | mm | 538 |
| | 3.7.1 | Tread width, rear | b11 | mm | 410 |
| Dimensions | 4.0 | Max. Lift Height | H | mm | 3000 |
| | 4.2 | Retracted mast height | h1 | mm | 2020 |
| | 4.3 | Free lift | h2 | mm | 100 |
| | 4.4 | Lift height | h3 | mm | 2912 |
| | 4.5 | Height, mast extended | h4 | mm | 3465 |
| | 4.6 | Initial lift | h5 | mm | — |
| | 4.9 | Height of tiller handle in drive position min./max. | h14 | mm | 715/1200 |
| | 4.10 | Height of wheel arms | h8 | mm | — |
| | 4.15 | Lowered height | h13 | mm | 88 |
| | 4.19 | Overall length | l1 | mm | 1940 |
| | 4.20 | Length to face of forks | l2 | mm | 790 |
| | 4.21 | Overall width | b1/b2 | mm | 800 |
| | 4.22 | Fork dimensions | s/e/l | mm | 60x190x1150 |
| | 4.24 | Fork carriage width | b3 | mm | — |
| | 4.25 | Distance between fork-arms | b5 | mm | 600 |
| | 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 | 18 |
| | 4.34.1 | Aisle width for pallets 1000x1200 crossways | Ast | mm | 2465 |
| | 4.34.2 | Aisle width for pallets 800x1200 crossways | Ast | mm | 2440 |
| Performance data | 4.35 | Turning radius | Wa | mm | 1589 |
| | 5.1 | Travel speed, laden/unladen | | km/h | 4.5/5.0 |
| | 5.2 | Lifting speed, laden/unladen | | m/s | 0.11/0.16 |
| | 5.3 | Lowering speed, laden/unladen | | m/s | 0.32/0.23 |
| | 5.8 | Max. gradeability, laden/unladen | | % | 6/12 |
| Electric-engine | 5.10 | Service brake | | | Electromagnetic |
| | 6.1 | Drive motor rating S2 60 min | | kW | 1.1 |
| | 6.2 | Lift motor rating at S3 15% | | kW | 3.0 |
| | 6.4 | Battery voltage/nominal capacity | | V/Ah | 24/280 |
| | 6.5 | Battery weight | | kg | 240 |
| Addition data | 8.1 | Type of drive control | | | AC |
| | 10.5 | Steering design | | | Mechanical |
| | 10.7 | Sound pressure level at the driver's ear | | dB(A) | 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



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 | 2500 | 1770 | 100 | 2965 |
| | 2700 | 1870 | 100 | 3165 |
| | 3000 | 2020 | 100 | 3465 |
| | 3300 | 2170 | 100 | 3765 |
| | 3600 | 2320 | 100 | 4065 |
| | 3900 | 2470 | 100 | 4365 |
| 2-Free Mast | — | — | — | — |
| | — | — | — | — |
| | — | — | — | — |
| 3-Free Mast | 4000 | 1830 | 1390 | 4470 |
| | 4500 | 2030 | 1590 | 4970 |
| | 4800 | 2130 | 1690 | 5270 |
| | 5000 | 2195 | 1740 | 5470 |
| | 5500 | 2360 | 1910 | 5970 |

Option

| No. | Optional items | ES20-WA |
|---|------------------------------|--|
| 1.1 | Fork dimension | ●600*1150○600*1220○685*1150○685*1220 |
| 1.3 | Fork lowered height | ●88 |
| 2.1 | Load wheel type | ●Double |
| 2.2 | Load wheel material | ●PU |
| 2.3 | Drive wheel material | ●PU |
| 2.7 | Battery capacity | ●280Ah○205Ah(Li-ion) |
| 2.8 | Charger | ●24V-30A External○24V-50A External (Li-ion) ○24V-100A External (Li-ion) |
| 2.9 | Battery indicator | ●With time○With time (Bluetooth, only for Li-ion battery) |
| 3.2 | Castor wheels | ●Yes and not customized |
| 3.3 | Water auto-filling system | ●No○Yes and not customized(only for Lead-acid Battery) |
| 3.20 | Telematics | ●No○Yes and not customized(only for Li-ion Battery) |
| 4.1 | Battery side pull function | ●Yes and not customized |
| 4.5 | Proportional lift system | ●No ○Yes and not customized |
| 5.1 | Battery side pull attachment | ●No○Side-pull trolley |
| Note: ●Standard ○ Optional - Inconformity | | |



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