



ES16-16RAS/ES20-20RAS

1.6/2.0 ton electric stacker car

- High strength high stacking options;
- Ultra-high strength structure, can realize high stacking;
- Pedal arm guard and electric steering are optional, which can work safely and easily for a long time.

Product features

01

High performance, high reliability

- AC drive system, provide strong power, more accurate control, more stable operation;
- High strength vertical transmission, long working life;
- Low noise and low fault hydraulic station, after multilayer testing of the cylinder and pipeline, to ensure the high reliability of the hydraulic system;
- Reliable AMP waterproof connectors and electrical parts, all wires, cables are reliably protected and fixed, greatly reducing electrical failures;
- H-type door frame channel steel, high bending performance improves the overall strength of the door frame;
- Super structure design, improve the stability and durability of the vehicle;
- The innovative driving-float operation Adjustable system (DFA) achieves a smooth, non-tilt body during high-speed cornering.

02

More secure

- Hydraulic system explosion-proof design, even if the tubing burst, the door frame will not fall quickly, improve safety;
- Two driving speeds: when the arm guard is closed, it can only run at half the speed; when the arm guard is opened, it can run at full speed to improve the safety of the operator;
- Emergency reverse driving function, so that the operator to avoid injury;
- Emergency power switch, can easily cut off all power when the operation is out of control, avoid emergency accidents;
- Multiple lifting limits, safer stacking;
- When the fork is raised to a certain height, the vehicle automatically switches to the slow mode, which is safer.
- Anti-skid braking function, so that the car is out of control or slope driving, prevent its slide;
- Dual monitoring electronic steering, safe and reliable (electric steering).

03

Easy to operate

- Fully consider the ergonomic design of the handle head, each function button is convenient and easy to operate;
- Folding pedal, with cushioning function, can eliminate the impact given by the operator in the process of driving;
- Innovative actuated floating operation adjustable system (DFA SYSTEM) makes steering operation light and flexible (mechanical steering);
- When the pedal is folded, it can be operated at a low speed in a small space.
- Humanized arm guard structure, so that the opening and closing operation of the arm guard is very easy, and has strong anti-impact force, really play the role of arm guard;
- Electronic steering makes handling easier.

04

Convenient maintenance

- AC motor, free from maintenance;
- Equipped with timer and electric meter, convenient to remind the operator timely charge, protect the battery;
- The body is convenient to disassemble and assemble, only 4 screws are unscrewed to remove the back cover, you can test, repair and replace the main key parts;
- The lid of the battery box is easy to open, and it is convenient to add distilled water or electrolyte to the battery.
- The use of vertical motor makes the detection and maintenance of motor and brake directly convenient, and the maintenance performance is much better than that of horizontal motor;
- Controller self-diagnosis system, through the handheld unit display fault code, more convenient to solve the fault;
- The door frame and the car frame assembly type connection structure, so that the door frame installation and replacement is more convenient;
- Low voltage automatic protection, prolong battery life.

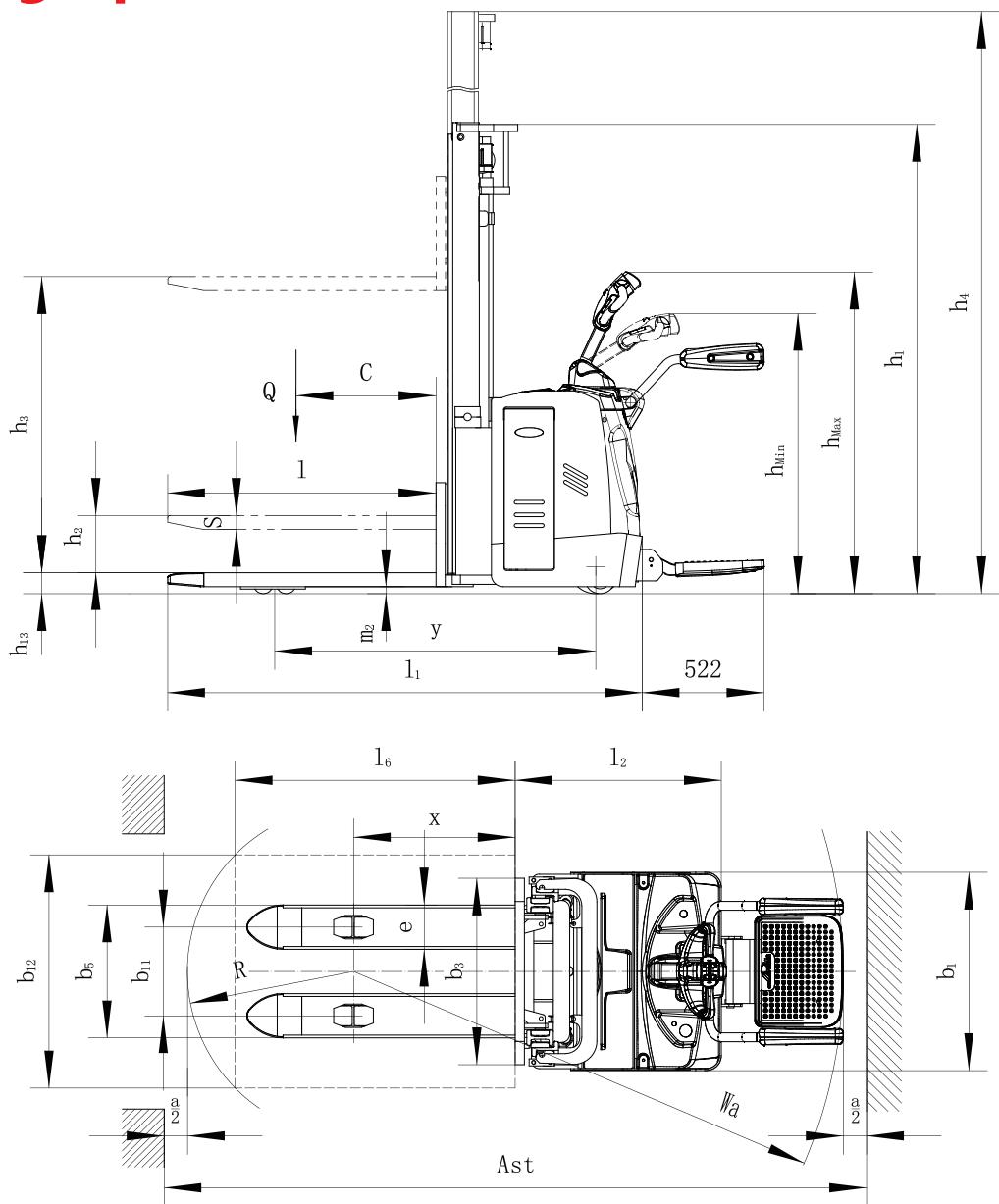


Product parameters

| Features | | | | | |
|-----------------------|---|-----------------|--------|---------------------------|---------------------------|
| 1.1 | Brand | | | Xinxu | Xinxu |
| 1.2 | Model | | | ES16-16RAS | ES20-20RAS |
| 1.3 | Power form | | | Electric | Electric |
| 1.4 | Type of operation | | | Stand-and-drive type | Stand-and-drive type |
| 1.5 | Load | Q | kg | 1600 | 2000 |
| 1.6 | Load center distance | c | mm | 600 | 600 |
| 1.8 | Load length | x | mm | 693 | 693 |
| 1.9 | Wheelbase | y | mm | 1394 | 1394 |
| Weight | | | | | |
| 2.1 | Self-weight (including electric battery) | | kg | 1350 | 1350 |
| 2.2 | Axle load, full load driving end/bearing end | | kg | 980/1970 | 1100/2250 |
| 2.3 | Axle load, no load driving end/bearing end | | kg | 950/400 | 950/400 |
| Tire, chassis | | | | | |
| 3.1 | Tire type, drive wheel/carrier wheel | | | Polyurethane/polyurethane | Polyurethane/polyurethane |
| 3.2 | Driving wheel size (diameter × width) | | mm | Φ230×75 | Φ230×75 |
| 3.3 | Bearing wheel size (diameter × width) | | mm | Φ85×70 | Φ85×70 |
| 3.4 | Balance wheel size (diameter × width) | | mm | Φ130×55 | Φ130×55 |
| 3.5 | Number of driving wheels, balancing wheels/bearing wheels (x= driving wheels) | | mm | 1x +2/4 | 1x +2/4 |
| 3.6 | Front wheel base, drive end | b ₁₀ | mm | 634 | 634 |
| 3.7 | Rear wheel base, bearing end | b ₁₁ | mm | 380 | 495 |
| Size | | | | | |
| 4.2 | The lowest height after the gantry is lowered | h ₁ | mm | 2020 | 2020 |
| 4.3 | Free lifting height | h ₂ | mm | 100 | 100 |
| 4.4 | Maximum lifting height of the gantry | h ₃ | mm | 2912 | 2912 |
| 4.5 | The height point of the gantry at the time of maximum lifting | h ₄ | mm | 3465 | 3465 |
| 4.9 | Operating position Minimum/maximum height of the handle lever | h ₁₄ | mm | 1150/1480 | 1150/1480 |
| 4.15 | Fork surface height after lowering | h ₁₃ | mm | 88 | 88 |
| 4.19 | Vehicle length | l ₁ | mm | 2003 | 2003 |
| 4.20 | The length of the vertical plane of the fork | l ₂ | mm | 860 | 860 |
| 4.21 | Overall width | b ₁ | mm | 850 | 850 |
| 4.22 | Fork size | s/e/l | mm | 60×190×1150 | 60×190×1150 |
| 4.24 | Stop shelf width | b ₃ | mm | 800 | 800 |
| 4.25 | The fork is wide outside | b ₅ | mm | 570 | 685 |
| 4.32 | Ground clearance at the center of the wheelbase | m ₂ | mm | 28 | 28 |
| 4.34.1 | The tray is 1200 width x 1000 length channel width | Ast | mm | 2610/2971 | 2610/2971 |
| 4.34.2 | The tray is 800 width x 1200 length channel width | Ast | mm | 2580/2941 | 2580/2941 |
| 4.35 | Turning radius | Wa | mm | 1738/2099 | 1738/2099 |
| Performance parameter | | | | | |
| 5.1 | Walking speed, full load/empty load | | km/h | 5.5/6.0 | 4.5/5.0 |
| 5.2 | Lifting speed, full load/no load | | m/s | 0.13/0.16 | 0.1/ 0.16 |
| 5.3 | Rate of descent, full/empty | | m/s | 0.32/0.23 | 0.33/ 0.23 |
| 5.8 | Maximum climb, full load/no load | | % | 8/16 | 6/ 12 |
| 5.10 | Brake type | | | Electromagnetic braking | Electromagnetic braking |
| Motor | | | | | |
| 6.1 | Drive motor rated power S2 60 minutes | | kW | 1.6 | 1.6 |
| 6.2 | Lifting motor rated S3 15% | | kW | 3.0 | 3.0 |
| 6.3 | Maximum allowable size of battery | | mm | 834×216×630 | 834×216×630 |
| 6.4 | Battery voltage/nominal capacity K5 | | V/Ah | 24/280 | 24/280 |
| 6.5 | Battery weight | | kg | 240 | 240 |
| Other data | | | | | |
| 8.1 | Drive control type | | | AC | AC |
| 10.5 | Steering type | | | Electronic steering | Electronic steering |
| 10.7 | Noise level | | dB (A) | 74 | 74 |

Subject to technical parameters or configuration improvement without prior notice, the chart shown may include non-standard configuration.

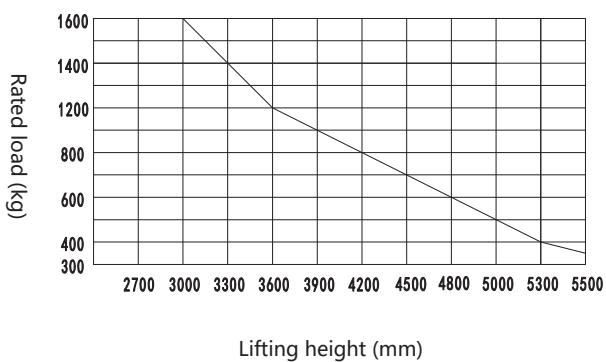
Line graph



Rated capacity

Load curve diagram ES20-20RAS

Load curve diagram ES16-16RAS



The graph illustrates the relationship between the rated load (kg) and the lifting height (mm). The vertical axis represents the rated load in kilograms, ranging from 400 to 2000 in increments of 200. The horizontal axis represents the lifting height in millimeters, ranging from 2700 to 5500 in increments of 300. A single downward-sloping line connects the following data points:

| Lifting height (mm) | Rated load (kg) |
|---------------------|-----------------|
| 3000 | 2000 |
| 3300 | 1600 |
| 3600 | 1400 |
| 3900 | 1200 |
| 4200 | 900 |
| 4500 | 700 |
| 4800 | 500 |
| 5000 | 600 |
| 5500 | 400 |

Selection table

| S/N | Matching item | ES16-16RAS | ES20-20RAS |
|---|------------------------------|--|--|
| 3 | Fork length (mm) | •1150○1220 | •1150○1220 |
| 4 | Fork width | ●570○685 | ●570○685 |
| 10 | Driving wheel | ●Polyurethane ○ Rubber wheel/ decorative polyurethane | ●Polyurethane ○ Rubber wheel/ decorative polyurethane |
| 11 | Universal wheel | ● | ● |
| 15 | Special use for cold storage | ○ | ○ |
| 16 | Gantry baffle | ● | ● |
| 17 | Chronoelectric meter | ● | ● |
| 18 | No time meter | ○ | ○ |
| 19 | Battery capacity | ○230Ah/280Ah/360Ah | ○280Ah/360Ah |
| 20 | Side pull battery | ● | ● |
| 22 | Battery refill device | ○ | ○ |
| 26 | The ratio goes up and down | ○ | ○ |
| 27 | Lifting electron limit | ● | ● |
| 31 | Curve deceleration | ● | ● |
| 32 | Safety arm guard | ● | ● |
| Note: ●Standard arrangement ○Matching —No | | | |

Mast option

| Lifting height | Type of gantry | Resting height (mm) | Free lifting height (mm) | Lift to full vehicle height (mm) |
|----------------|-------------------------|---------------------|--------------------------|----------------------------------|
| 2700 | Two-stage | 1870 | 100 | 3165 |
| 3000 | | 2020 | 100 | 3465 |
| 3300 | | 2170 | 100 | 3765 |
| 3600 | | 2320 | 100 | 4065 |
| 3900 | | 2470 | 100 | 4365 |
| 4170 | | 2600 | 100 | 4625 |
| 4000 | Tertiary | 1822 | 1390 | 4460 |
| 4500 | | 2022 | 1590 | 4960 |
| 4800 | | 2122 | 1690 | 5260 |
| 5000 | | 2187 | 1740 | 5460 |
| 5300 | | 2287 | 1840 | 5760 |
| 5500 | | 2352 | 1910 | 5910 |
| 2700 | Two levels full freedom | 1819 | 1320 | 3135 |
| 3000 | | 1969 | 1470 | 3435 |
| 3300 | | 2119 | 1620 | 3735 |