




ES16-RSi

ELECTRIC STACKER 1.6T

 2000 kg
  3000 mm
  24 V Lead Acid



The ES16-RSi is ideal for distribution centers, logistics hubs, and industrial sites requiring flexibility between pedestrian and ride-on operation. With mast options up to 5.5 meters, proportional lift control, and compact 850 mm chassis width, it is perfectly suited for narrow aisles and medium-to-high racking. Its ability to carry two pallets at once doubles efficiency, making it an excellent choice for high-turnover environments.

| SPECIFICATION | REF | UNIT | VALUE |
|-------------------------|--------------------------------|------|--------------|
| Manufacturer | | | EP |
| Model designation | | | ES16-RSi |
| Battery voltage | | V | 24 |
| Rated capacity | Q | kg | 2000 |
| Load centre distance | c | m | 600 |
| Service weight | | m | 1335 |
| Height, mast lowered | h ₁ | kg | 2020 |
| Lift | h ₃ | m | 2907 |
| Height, mast extended | h ₄ | m | 346 |
| Overall length | l ₁ | m | 0 |
| Overall width | b ₁ /b ₂ | m | 219 |
| Length to face of forks | l ₂ | m | 557 |
| Fork dimensions | s/e/l | m | 850/190/1150 |
| Turning radius | Wa | m | 1765/2192 |
| Drive | | m | Electric |
| Operator type | | m | Standing |
| | | m | |

Features

Initial lift for versatility

The ES16-RSi can raise its support arms independently, allowing operators to handle two pallets simultaneously or move smoothly across ramps and uneven floors.



Flexible mast and load handling

With mast options up to 5.5 meters, proportional lifting, and load capacities of 1600 kg (mast) or 2000 kg (support arms), it provides strength and flexibility for stacking and transport.



Operator comfort and safety

Foldable platform with vibration reduction, protection arms, and electric power steering improve comfort, while features such as automatic speed reduction, anti-rollback brake, and dual hydraulic monitoring maximize safety.



Energy-efficient power system

Standard with a 24V/280Ah lead-acid battery and optional 205Ah Li-ion upgrade, the ES16-RSi supports efficient charging, long runtime, and reduced maintenance.

VDI Chart

| | SPECIFICATION | REF | UNIT | VALUE |
|-----|-------------------|-----|------|----------|
| 1.1 | Manufacturer | | | EP |
| 1.2 | Model designation | | | ES16-RSi |
| 1.3 | Drive | | | Electric |
| 1.4 | Operator type | | | Standing |

| | SPECIFICATION | REF | UNIT | VALUE |
|-------------------|---|--------------------------------|-------|-----------------|
| 1.5 | Rated capacity | Q | T kg | 2000 |
| 1.5.1 | Load capacity, load with mast lift | Q ₁ | kg | 1600 |
| 1.5.2 | Load capacity, load with support arm lift | Q ₂ | kg | 2000 |
| 1.6 | Load centre distance | c | mm | 600 |
| 1.8 | Load distance, centre of drive axle to fork | x | mm | 710 |
| 1.9 | Wheelbase | y | mm | 1460 |
| 2.1 | Service weight | | kg kg | 1335 |
| 2.2 | Axle loading, laden front/rear | | kg | 1075/1860 |
| 2.3 | Axle loading, unladen front/rear | | | 935/400 |
| 3.1 | Tyres | | | Polyurethane |
| 3.2 | Tyre size, front | | m | Φ230x75 |
| 3.3 | Tyre size, rear | | m | Φ85x70 |
| 3.4 | Additional wheels (castor wheels) | | m | Φ130x55 |
| 3.5 | Wheels, number front/rear (x=drive wheels) | | m | 1x+1/4 |
| 3.6 | Tread width, front | b ₁₀ | mm | 574 |
| 3.7 | Tread width, rear | b ₁₁ | m | 366 |
| 4.2 | Height, mast lowered | h ₁ | m | 202 |
| 4.4 | Lift | h | m | 0 |
| 4.5 | Height, mast extended | z | m | 2400 |
| 4.6 | Initial lift | h | m | 120 |
| 4.9 | Height drawbar in driving position min./max. | h ₁₄ | m | 1150/1480 |
| 4.15 | Height, lowered | h ₁₃ | m | 93 |
| 4.19 | Overall length | l ₁ | m | 2195 |
| 4.20 | Length to face of forks | l ₂ | mm | 957 |
| 4.21 | Overall width | b ₁ /b ₂ | m | 850 |
| 4.22 | Fork dimensions | s/e/l | m | 60/190/115 |
| 4.2 | Fork carriage width | | m | 0 800 |
| 4 | Distance between fork-arms | b ₅ | m | 560 |
| 4.2 | Distance between wheel arms/loading surfaces | | m | 560 |
| 5 | Ground clearance, laden, below mast | | m | 20 |
| 4.32 | Ground clearance, centre of wheelbase | m ₂ | m | 20 |
| 4.34.1 | Aisle width for pallets 1000×1200 crossways | Ast | m | 2665/3092 |
| 4.34.2 | Aisle width for pallets 800 × 1200 lengthways | Ast | m | 2597/3024 |
| 4.35 | Turning radius | Wa | m | 1765/2192 |
| | | | m | |
| | | | m | |
| | | | m | |

| | SPECIFICATION | REF | UNIT | VALUE |
|-------|--|-----|---------------|-----------------|
| 5.1 | Travel speed, laden/unladen | | T | 5.5/6 |
| 5.2 | Lift speed, laden/unladen | | km/ | 0.11/0.16 |
| 5.3 | Lowering speed, laden/unladen | | h | 0.14/0.12 |
| 5.8 | Max. gradeability, laden/unladen | | m/s | 8/16 |
| 5.1 | Service brake | | m/s | Electromagnetic |
| 8.1 | Drive motor rating S2 60 min | | kW | 2.5 |
| 6.2 | Lift motor rating at S3 15% | | kW | 3 |
| 6.4.1 | Battery voltage | | V | 24 |
| 6.4.2 | Battery nominal capacity K5 | | Ah | 280 |
| 6.4.3 | Battery type | | | Lead Acid |
| 6.5 | Battery weight | | kg | 270 |
| 6.6 | Energy consumption according to DIN EN 16796 | | kWh/h | N/A |
| 8.1 | Type of drive unit | | | AC |
| 10. | Steering design | | | Electronic |
| 5 | Sound pressure level at the driver's seat | | dB(A) | 74 |
| 19:1 | Charger output current | | A | 30 |
| 7 | | | | |

Subject to modification of specifications and designs without prior notice as part of continuous product improvement. Images and technical data shown may include optional features and are provided for reference only. All dimensions are subject to standard manufacturing tolerances.

Mast Options

| MAST TYPE | LIFT HEIGHT (H3, MM) | MAST LOWERED HEIGHT (H1, MM) | MAST EXTENDED HEIGHT, NO BACKREST (H4, MM) | FREE LIFT HEIGHT, NO BACKREST (H2, MM) |
|------------------------------------|----------------------|------------------------------|--|--|
| 2-Standard Mast | 2500 | 1770 | 2965 | 100 |
| 2-Standard Mast2700 | | 1870 | 3165 | 100 |
| 2-Standard Mast2-Standard M3as0t00 | | 2020 | 3465 | 100 |
| 2-Standard Mast3300 | | 2170 | 3765 | 100 |
| 2-Standard Mast3600 | | 2320 | 4065 | 100 |
| 2-Standard Mast3900 | | 2470 | 4365 | 100 |
| 2-Standard Mast | 4170 | 2600 | 4625 | 100 |
| 3-Free Mast | 4000 | 1822 | 4460 | 1390 |
| 3-Free Mast | 4500 | 2022 | 4960 | 1590 |
| 3-Free Mast | 4800 | 2122 | 5260 | 1690 |
| 3-Free Mast | 5000 | 2187 | 5460 | 1740 |
| 3-Free Mast | 5500 | 2352 | 5910 | 1910 |

Options

| ITEM | OPTIONS (optional items marked in yellow) |
|---------------------------|---|
| Fork dimension | 560*1150 685*1150 |
| Fork lowered height | 93 |
| Load wheel type | Double |
| Load wheel material | PU |
| Drive wheel material | PU Rubber |
| Battery capacity | 280Ah (Lead Acid) 205Ah (Li-ion) |
| Charger | 24V-30A External (Lead acid) 24V-100A External (Li-ion) |
| Battery indicator | With hourmeter (Bluetooth) |
| Castor wheels | Yes and not customized |
| Water auto-filling system | No Yes and not customized |
| Telematics | No Yes and not customized |

| ITEM | OPTIONS (optional items marked in yellow) |
|----------------------------|---|
| Battery side pull function | Yes and not customized |
| Proportional lift system | Yes and not customized |
| Turn speed control | Yes and not customized |
| Lifting electronic limit | Yes and not customized |