

# RSL161 RSL161i Foldable platform stacker 1600kg



**EP**  
Let's grow together



- Design for long-distance transport thanks to max speed of 11km/h
- Compact frame and foldable platform for easy working on aisle and narrow spaces
- Safety and ergonomics with power electronic steering and automatic speed reduction on turns
- Efficiency and precision with proportional fork controls
- Wide mast selection with elevation up to 5,5 meters
- Powerful 24V 205Ah Li-Ion battery with external charging plug
- Standard and Initial lifting version

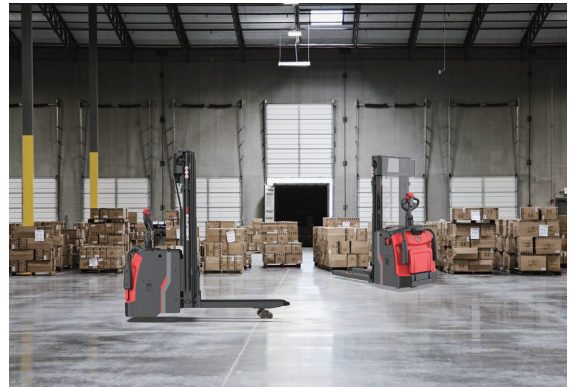


| Manufacturer                                 |       |       | EP                | EP                |
|--|-------|-------|-------------------|-------------------|
| Model designation                            |       |       | RSL161            | RSL161i           |
| Drive  |       |       | Electric          | Electric          |
| Load capacity                                | Q     | kg    | 1600              | 2000              |
| Load capacity, load with mast lift           | Q1    | kg    | \                 | 1600              |
| Load capacity, load with support arm lift    | Q2    | kg    | \                 | 2000              |
| Load center distance                         | c     | mm    | 600               | 600               |
| Service weight                               |       | kg    | 1200              | 1340              |
| Lift height                                  | h3    | mm    | 2915              | 2915              |
| Height, mast extended                        | h4    | mm    | 3425              | 3495              |
| Initial lift                                 | h5    | mm    | \                 | 120               |
| Length to face of forks                      | l2    | mm    | 821               | 971               |
| Overall width                                | b1/b2 | mm    | 850               | 850               |
| Fork dimensions                              | s/e/l | mm    | 65×170×1150       | 60×185×1150       |
| Turning radius                               | Wa    | mm    | 1560              | 1900              |
| Max. gradeability, laden/unladen             |       | %     | 8/12              | 8/16              |
| Travel speed, laden/unladen                  |       | km/h  | 9/11              | 9/11              |
| Lifting speed, laden/unladen                 |       | m/s   | 0.2/0.26          | 0.2/0.26          |
| Lowering speed, laden/unladen                |       | m/s   | 0.4/0.36          | 0.4/0.36          |
| Battery voltage/nominal capacity             |       | V/Ah  | 24/205            | 24/205            |
| Energy consumption according to DIN EN 16796 |       | kWh/h | 1.01 <sup>1</sup> | 1.01 <sup>1</sup> |
| Turnover output according to VDI 2198        |       | t/h   | 54.4              | 54.4              |
| Turnover efficiency according to VDI 2198    |       | t/kWh | 37                | 37                |

## FEATURES

### Maximum Performance for Professional Users

The RSL161 of standard version and Initial lifting version is the perfect choice for professional users who require a high-performance electric stacker designed for efficient material handling in warehouses and industrial environments. With its fully integrated lithium-ion battery, the RSL161 stacker offers superior agility, energy efficiency, and a compact design. The RSL161 series ensures safe and comfortable operation, ideal for stacking and transporting loads over medium to long distances.



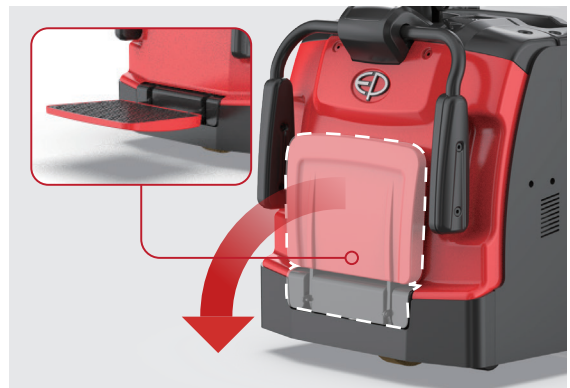
### Designed around Lithium Battery Advantages

Equipped with a powerful 24V 205Ah Lithium-ion battery, the RSL stacker offers all the advantages of this technology including a compact frame and grants long operation, short downtime and extremely long battery life with no maintenance requirement. The external charging plug makes the charging process extremely efficient and user-friendly - no more need to open battery compartment and remove plugs and a full re-charge of less than 2 hours



### New Foldable Operator Platform: Comfort & Compact Design

The newly designed foldable operator platform enhances both comfort and maneuverability, making it ideal for long-distance travel and usage in tight warehouse spaces. Its shock-absorbing suspension ensures a smooth and stable ride, reducing operator fatigue over extended shifts. When folded, the stacker becomes more compact, improving maneuverability between racks and narrow aisles, allowing for greater control and efficiency in confined spaces. This innovative design provides an ergonomic and adaptable solution, ensuring a comfortable ride, effortless handling, and optimized performance in any warehouse environment.



### Effortless Steering and Smart Monitoring

The proportional electronic power steering reduces operator fatigue while ensuring precise and smooth control. For added safety, the system automatically slows down at turns, enhancing stability and maneuverability.

The new color display provides a quick and clear overview of the machine's status and battery level, allowing the operator to monitor key information at a glance. With intelligent steering and real-time data access, the RSL161 ensures greater efficiency, comfort, and safety in warehouse operations.



# 1600kg foldable platform stacker

## RSL161/RSL161i

|                     |        |   |       |       |                 |                 |
|---------------------|--------|---|-------|-------|-----------------|-----------------|
| Distinguishing mark | 1.1    | Manufacturer  |       |       | EP              | EP              |
|                     | 1.2    | Model designation                                   |       |       | RSL161          | RSL161i         |
|                     | 1.3    | Drive   |       |       | Electric        | Electric        |
|                     | 1.4    | Operator type                                       |       |       | Standing        | Standing        |
|                     | 1.5    | Load capacity                                       | Q     | kg    | 1600            | 2000            |
|                     | 1.5.1  | Load capacity, load with mast lift                  | Q1    | kg    | \               | 1600            |
|                     | 1.5.2  | Load capacity, load with support arm lift           | Q2    | kg    | \               | 2000            |
|                     | 1.6    | Load center distance                                | c     | mm    | 600             | 600             |
|                     | 1.8    | Load distance, centre of drive axle to fork         | x     | mm    | 690             | 690             |
|                     | 1.9    | Wheelbase   | y     | mm    | 1306            | 1650            |
| Service weight      | 2.1    | Service weight                                      |       | kg    | 1340            | \               |
|                     | 2.2    | Axle loading, laden front/rear                      |       | kg    | 1743/1033       | \               |
|                     | 2.3    | Axle loading, unladen front/rear                    |       | kg    | 560/650         | \               |
| Tyres/chassis       | 3.1    | Tyre type   |       |       | Polyurethane    | Polyurethane    |
|                     | 3.2.1  | Tyre size, front                                    |       | mm    | Φ230×75         | Φ230x75         |
|                     | 3.3.1  | Tyre size, rear                                     |       | mm    | Φ85×70          | Φ85x70          |
|                     | 3.4    | Additional wheels (castor wheels)                   |       | mm    | Φ130×55         | 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    | 385             | 385             |
| Dimensions          | 4.0    | Max. Lift Height                                    | H     | mm    | 3000            | 3000            |
|                     | 4.2    | Retracted mast height                               | h1    | mm    | 1970            | 2015            |
|                     | 4.3    | Free lift   | h2    | mm    | \               | \               |
|                     | 4.4    | Lift height   | h3    | mm    | 2915            | 2915            |
|                     | 4.5    | Height, mast extended                               | h4    | mm    | 3425            | 3495            |
|                     | 4.6    | Initial lift  | h5    | mm    | \               | 120             |
|                     | 4.9    | Height of tiller handle in drive position min./max. | h14   | mm    | 1125/1361       | 1125/1361       |
|                     | 4.10   | Height of wheel arms                                | h8    | mm    | \               | \               |
|                     | 4.15   | Lowered height                                      | h13   | mm    | 90              | 92              |
|                     | 4.19   | Overall length                                      | l1    | mm    | 1961            | 2111            |
|                     | 4.20   | Length to face of forks                             | l2    | mm    | 821             | 971             |
|                     | 4.21   | Overall width                                       | b1/b2 | mm    | 850             | 850             |
|                     | 4.22   | Fork dimensions                                     | s/e/l | mm    | 65×170×1150     | 60×185×1150     |
|                     | 4.24   | Fork carriage width                                 | b3    | mm    | 750             | 750             |
|                     | 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    | 25              | 14              |
|                     | 4.32   | Ground clearance, center of wheelbase               | m2    | mm    | 25              | 14              |
|                     | 4.34.1 | Aisle width for pallets 1000×1200 crossways         | Ast   | mm    | 2430            | 2708            |
|                     | 4.34.2 | Aisle width for pallets 800×1200 crossways          | Ast   | mm    | 2400            | 2602            |
| Performance data    | 4.35   | Turning radius                                      | Wa    | mm    | 1560            | 1900            |
|                     | 5.1    | Travel speed, laden/unladen                         |       | km/ h | 9/11            | 9/11            |
|                     | 5.2    | Lifting speed, laden/unladen                        |       | m/s   | 0.23/0.3        | 0.23/0.3        |
|                     | 5.3    | Lowering speed, laden/unladen                       |       | m/s   | 0.4/0.36        | 0.4/0.36        |
|                     | 5.8    | Max. gradeability, laden/unladen                    |       | %     | 9/11            | 9/11            |
|                     | 5.10   | Service brake                                       |       |       | Electromagnetic | Electromagnetic |
| Electric-engine     | 6.1    | Drive motor rating S2 60 min                        |       | kW    | 3               | 3               |
|                     | 6.2    | Lift motor rating at S3 15%                         |       | kW    | 4.5             | 4.5             |
|                     | 6.4    | Battery voltage/nominal capacity                    |       | V/Ah  | 24/205          | 24/205          |
|                     | 6.5    | Battery weight                                      |       | kg    | 72              | 72              |
| 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              |

Technical drawing of a forklift showing side and top views with dimensions.

**Side View Dimensions:**

- $h_4$ : Total height from ground to the top of the mast.
- $h_1$ : Height from ground to the top of the load backrest.
- $h_{14 \text{ max}}$ : Maximum height from ground to the top of the load backrest.
- $h_{14 \text{ min}}$ : Minimum height from ground to the top of the load backrest.
- $L_1$ : Overall length of the forklift.
- $L_2$ : Length of the chassis.
- $y$ : Distance from the front of the chassis to the center of the mast.
- $e$ : Distance from the center of the mast to the top of the load backrest.
- $q$ : Weight of the load backrest.
- $L$ : Length of the load backrest.
- $s$ : Distance from the front of the chassis to the front of the mast.
- $m_2$ : Mass of the mast.
- $b_2$ : Width of the mast.
- $h_{13}$ : Height from ground to the top of the mast.
- $b_3$ : Width of the mast at the top.

**Top View Dimensions:**

- $b_1$ : Width of the chassis.
- $a/2$ : Distance from the centerline to the side of the chassis.
- $T_0$ : Weight of the chassis.
- $b_1$ : Width of the mast at the base.
- $b_2$ : Width of the mast at the top.
- $a$ : Distance between the centers of the two forks.
- $a_{st}$ : Overall width of the forklift at the base.
- $a/2$ : Distance from the centerline to the side of the mast.

Technical drawings of a forklift showing side and top views with dimensions.

**Side View (Left):** Shows the forklift from the side. Dimensions include:
 

- $h_{\text{max}}$ : Maximum height of the mast.
- $h_{\text{min}}$ : Minimum height of the mast.
- $h$ : Overall height of the forklift.
- $l_1$ : Wheelbase.
- $l_2$ : Distance from the front axle to the center of gravity.
- $l_3$ : Distance from the rear axle to the center of gravity.
- $l_4$ : Distance from the front axle to the mast.
- $l_5$ : Distance from the rear axle to the mast.
- $l_6$ : Distance from the center of gravity to the mast.
- $l_7$ : Distance from the front axle to the mast.
- $l_8$ : Distance from the rear axle to the mast.
- $l_9$ : Distance from the center of gravity to the mast.
- $l_{10}$ : Distance from the front axle to the mast.
- $l_{11}$ : Distance from the rear axle to the mast.
- $l_{12}$ : Distance from the center of gravity to the mast.
- $l_{13}$ : Distance from the front axle to the mast.
- $l_{14}$ : Distance from the rear axle to the mast.
- $l_{15}$ : Distance from the center of gravity to the mast.
- $l_{16}$ : Distance from the front axle to the mast.
- $l_{17}$ : Distance from the rear axle to the mast.
- $l_{18}$ : Distance from the center of gravity to the mast.
- $l_{19}$ : Distance from the front axle to the mast.
- $l_{20}$ : Distance from the rear axle to the mast.
- $l_{21}$ : Distance from the center of gravity to the mast.
- $l_{22}$ : Distance from the front axle to the mast.
- $l_{23}$ : Distance from the rear axle to the mast.
- $l_{24}$ : Distance from the center of gravity to the mast.
- $l_{25}$ : Distance from the front axle to the mast.
- $l_{26}$ : Distance from the rear axle to the mast.
- $l_{27}$ : Distance from the center of gravity to the mast.
- $l_{28}$ : Distance from the front axle to the mast.
- $l_{29}$ : Distance from the rear axle to the mast.
- $l_{30}$ : Distance from the center of gravity to the mast.

**Top View (Right):** Shows the forklift from above. Dimensions include:
 

- $l_{31}$ : Overall width.
- $l_{32}$ : Distance from the center of gravity to the mast.
- $l_{33}$ : Distance from the front axle to the mast.
- $l_{34}$ : Distance from the rear axle to the mast.
- $l_{35}$ : Distance from the center of gravity to the mast.
- $l_{36}$ : Distance from the front axle to the mast.
- $l_{37}$ : Distance from the rear axle to the mast.
- $l_{38}$ : Distance from the center of gravity to the mast.
- $l_{39}$ : Distance from the front axle to the mast.
- $l_{40}$ : Distance from the rear axle to the mast.
- $l_{41}$ : Distance from the center of gravity to the mast.
- $l_{42}$ : Distance from the front axle to the mast.
- $l_{43}$ : Distance from the rear axle to the mast.
- $l_{44}$ : Distance from the center of gravity to the mast.
- $l_{45}$ : Distance from the front axle to the mast.
- $l_{46}$ : Distance from the rear axle to the mast.
- $l_{47}$ : Distance from the center of gravity to the mast.
- $l_{48}$ : Distance from the front axle to the mast.
- $l_{49}$ : Distance from the rear axle to the mast.
- $l_{50}$ : Distance from the center of gravity to the mast.

# Mast Option:

## RSL161

| Mast types      | Lift height<br>h3+h13(mm) | Height, mast<br>lowered(h1) | Height,Free lift(h2) | Height, mast extended(h4) |
|-----------------|---------------------------|-----------------------------|----------------------|---------------------------|
| 2-Standard Mast | 2650                      | 1872                        | \                    | 2735                      |
|                 | 2950                      | 2022                        | \                    | 3035                      |
|                 | 3250                      | 2172                        | \                    | 3335                      |
|                 | 3550                      | 2322                        | \                    | 3635                      |
|                 | 3850                      | 2472                        | \                    | 3935                      |
|                 | 4110                      | 2602                        | \                    | 4195                      |
| 2-Free Mast     | 2700                      | 1822                        | 1405                 | 3088                      |
|                 | 3000                      | 1972                        | 1943                 | 3388                      |
|                 | 3300                      | 2122                        | 2093                 | 3688                      |
| 3-Free Mast     | 4000                      | 1820                        | 1430                 | 4445                      |
|                 | 4500                      | 2020                        | 1630                 | 4945                      |
|                 | 4800                      | 2115                        | 1730                 | 5245                      |
|                 | 5000                      | 2185                        | 1800                 | 5445                      |
|                 | 5500                      | 2385                        | 2000                 | 5945                      |

## RSL161i

| Mast types      | Lift height<br>h3+h13(mm) | Height, mast<br>lowered(h1) | Height,Free lift(h2) | Height, mast extended(h4) |
|-----------------|---------------------------|-----------------------------|----------------------|---------------------------|
| 2-Standard Mast | 2650                      | 1872                        | \                    | 2735                      |
|                 | 2950                      | 2022                        | \                    | 3035                      |
|                 | 3250                      | 2172                        | \                    | 3335                      |
|                 | 3550                      | 2322                        | \                    | 3635                      |
|                 | 3850                      | 2472                        | \                    | 3935                      |
|                 | 4110                      | 2602                        | \                    | 4195                      |
| 2-Free Mast     | 2700                      | 1822                        | 1405                 | 3088                      |
|                 | 3000                      | 1972                        | 1943                 | 3388                      |
|                 | 3300                      | 2122                        | 2093                 | 3688                      |
| 3-Free Mast     | 4000                      | 1820                        | 1430                 | 4445                      |
|                 | 4500                      | 2020                        | 1630                 | 4945                      |
|                 | 4800                      | 2115                        | 1730                 | 5245                      |
|                 | 5000                      | 2185                        | 1800                 | 5445                      |
|                 | 5500                      | 2385                        | 2000                 | 5945                      |

## Option:

| OPTION                                      | RSL161  | RSL161i   |
|---|---|---|
| Fork dimension                              | ●1150*570○1150*685  | ●1150*570○1150*685  |
| Fork lowered height                         | ●90   | ●90   |
| Fork carriage width                         | ●750  | ●750  |
| Load backrest height                        | ●388  | ●388  |
| Load wheel type                             | ●Double   | ●Double   |
| Load wheel material                         | ●PU   | ●PU   |
| Drive wheel material                        | ●PU○Trace PU○Rubber                                       | ●PU○Trace PU○Rubber                                       |
| Battery capacity                            | ●205Ah (Li-ion) ○280AH (Li-ion)                           | ●205Ah (Li-ion) ○280AH (Li-ion)                           |
| Charger                                     | ●24V-50A External (Li-ion)<br>○24V-100A External (Li-ion) | ●24V-50A External (Li-ion)<br>○24V-100A External (Li-ion) |
| Battery indicator                           | ●With hourmeter (Bluetooth)                               | ●With hourmeter (Bluetooth)                               |
| Castor wheels                               | ●Yes and not customized                                   | ●Yes and not customized                                   |
| Auto battery watering system                | ●No   | ●No   |
| Buzzer                                      | ●No○Yes and not customized                                | ●No○Yes and not customized                                |
| USB interface                               | ●USB  | ●USB  |
| Electronic scale                            | ●No   | ●No   |
| Electronic scale with printer               | ●No   | ●No   |
| Telematics                                  | ●No○Yes and not customized                                | ●No○Yes and not customized                                |
| Turn speed control                          | ●Yes and not customized                                   | ●Yes and not customized                                   |
| Heating system for lithium battery charging | ●No○Yes and not customized                                | ●No○Yes and not customized                                |
| Speed reduction with elevated mast          | ●Yes and not customized                                   | ●Yes and not customized                                   |
| Operator identification device              | ●No○Card reader   | ●No○Card reader   |
| Lifting electronic limit                    | ●Yes and not customized                                   | ●Yes and not customized                                   |
| lifting and lowering function               | ●Proportional lifting                                     | ●Proportional lifting                                     |
| Battery side pull function                  | ●No   | ●No   |
| Forks tilt forward and backward             | ●No   | ●No   |
| Battery side pull attachment                | ●No   | ●No   |
| Charger base                                | ●No   | ●No   |
| Note: ●Standard ○ Optional - Inconformity   |   |   |