

# RSL16 PRO

## HEAVY-DUTY LI-ION STACKER WITH FOLDABLE PLATFORM 1.6T

 1600 kg
  3000 mm
  24 V Li-Ion



The RSL16 PRO is designed for large warehouses, logistics hubs, and industrial sites where operators handle medium-to-long distance travel and intensive stacking cycles thanks to the high travelling and lifting / lowering speed with proportional control. The compact chassis makes it suitable for confined aisles while suspended platform and power steering grant high operator comfort. Elevations up to up to 5.5 meters, powerfull Li-Ion battery complete the scenario for the most demanding needs.

| SPECIFICATION                               | REF       | UNIT | VALUE       |
|---------------------------------------------|-----------|------|-------------|
| Battery type                                |           |      | Li-Ion      |
| Battery nominal capacity                    |           | Ah   | 24V/205AH   |
| Battery voltage                             |           | V    | 24          |
| Load capacity                               | Q         | kg   | 1600        |
| Load centre distance                        | c         | mm   | 600         |
| Service weight                              |           | kg   | 1200        |
| Retracted mast height                       | $h_1$     | mm   | 2015        |
| Lift height                                 | $h_3$     | mm   | 2915        |
| Height, mast extended                       | $h_4$     | mm   | 3495        |
| Overall length                              |           | mm   | 1961        |
| Overall width                               | $b_1/b_2$ | mm   | 850         |
| Length to face of forks                     | $l_2$     | mm   | 821         |
| Fork dimensions                             | s/e/l     | mm   | 65×170×1150 |
| Turning radius                              |           | Wa   | 1560        |
| Operator type                               |           |      | Pedestrian  |
| Load distance, centre of drive axle to fork |           | mm   | 690         |

# Features

## Heavy-duty versatility

With a maximum travel speed of 11km/h, fast and proportional lifting and lowering fork control, mast options up to 5.5 m, and gradeability up to 16%, RSL PRO delivers strength and flexibility for demanding logistics tasks.



## Powerful Li-ion performance

Equipped with a 24V/205Ah Li-ion battery (with optional 280Ah), the RSL161 PRO provides long runtime, easy, safe and fast charging (under 2 hours), and zero maintenance, supporting continuous warehouse operations.

## Foldable platform with suspension

The redesigned operator platform features shock-absorbing suspension, improving comfort and stability during long shifts. When folded, it reduces the truck footprint for easier maneuvering in narrow aisles.



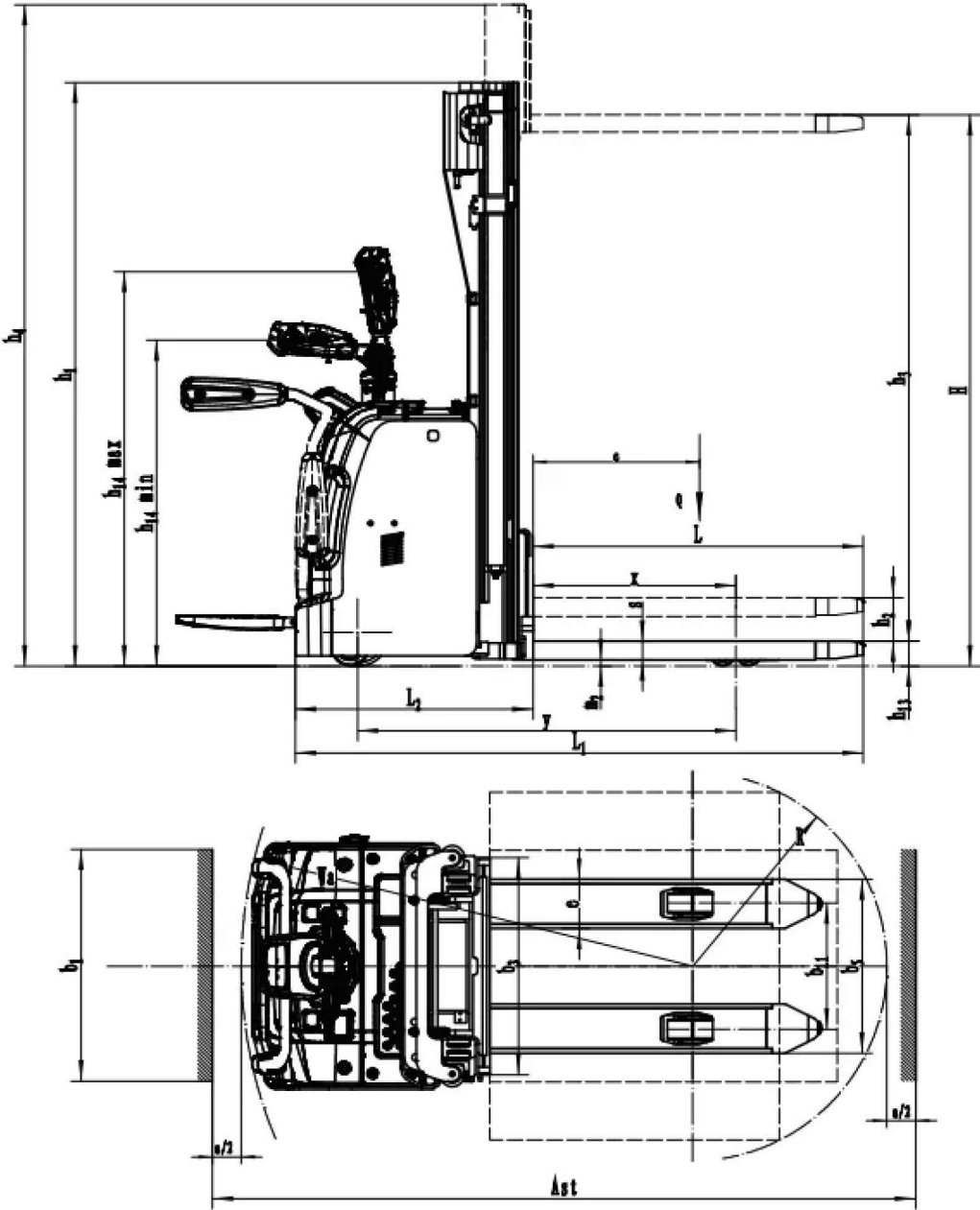
## Smart steering and monitoring

Electronic power steering reduces operator fatigue and improves precision. Automatic speed reduction at turns ensures stability, while the new color display provides real-time truck and battery information and allow the operator to adjust the performance through the ESP driving mode selector

# VDI Chart

|        | SPECIFICATION                                | REF                            | UNIT | VALUE        |
|--------|----------------------------------------------|--------------------------------|------|--------------|
| 1.4    | Operator type                                |                                |      | Pedestrian   |
| 1.5    | Load capacity                                | Q                              | kg   | 1600         |
| 1.6    | Load centre distance                         | c                              | mm   | 600          |
| 1.8    | Load distance, centre of drive axle to fork  |                                | mm   | 690          |
| 1.9    | Wheelbase                                    |                                | mm   | 1306         |
| 2.1    | Service weight                               |                                | kg   | 1200         |
| 2.2    | Axle loading, laden front/rear               |                                | kg   | 1050/1750    |
| 2.3    | Axle loading, unladen front/rear             |                                | kg   | 690/510      |
| 3.1    | Tyre type                                    |                                |      | Polyurethane |
| 3.2    | Tyre size, front                             |                                | mm   | 230×90       |
| 3.3    | Tyre size, rear                              |                                | mm   | 85×70        |
| 3.4    | Additional wheels (castor wheels)            |                                | mm   | 130×55       |
| 3.5    | Wheels, number front/rear (x=drive wheels)   |                                |      | 1x+2/4       |
| 3.6.1  | Tread width, front                           | b <sub>10</sub>                | mm   | 634          |
| 3.7.1  | Tread width, rear                            | b <sub>11</sub>                | mm   | 385          |
| 4.0    | Max lift height                              | H                              | mm   | 3000         |
| 4.10   | Height of wheel arms                         |                                | mm   | \            |
| 4.15   | Lowered height                               |                                |      | 90           |
| 4.19   | Overall length                               |                                | mm   | 1961         |
| 4.2    | Retracted mast height                        | h <sub>1</sub>                 | mm   | 2015         |
| 4.20   | Length to face of forks                      | l <sub>2</sub>                 | mm   | 821          |
| 4.21   | Overall width                                | b <sub>1</sub> /b <sub>2</sub> | mm   | 850          |
| 4.22   | Fork dimensions                              | s/e/l                          | mm   | 65×170×1150  |
| 4.24   | Fork carriage width                          |                                | mm   | 750          |
| 4.25   | Distance between fork-arms                   |                                |      | 570          |
| 4.26   | Distance between wheel arms/loading surfaces |                                |      | \            |
| 4.3    | Free lift                                    |                                | mm   | \            |
| 4.31   | Ground clearance, laden, below mast          |                                | mm   | 25           |
| 4.32   | Ground clearance, centre of wheelbase        |                                | mm   | 25           |
| 4.34.1 | Aisle width for pallets 1000×1200 crossways  |                                | Ast  | 2430         |
| 4.34.2 | Aisle width for pallets 800×1200 lengthways  |                                | Ast  | 2400         |
| 4.35   | Turning radius                               |                                | Wa   | 1560         |

|       | SPECIFICATION                                       | REF   | UNIT  | VALUE              |
|-------|-----------------------------------------------------|-------|-------|--------------------|
| 4.4   | Lift height                                         | $h_3$ | mm    | 2915               |
| 4.5   | Height, mast extended                               | $h_4$ | mm    | 3495               |
| 4.6   | Initial lift                                        |       | mm    | 90                 |
| 4.9   | Height of tiller handle in drive position min./max. |       |       | 1125/1361          |
| 5.1   | Travel speed, laden/unladen                         |       | km/h  | 9/11               |
| 5.10  | Service brake                                       |       |       | Electromagnetic    |
| 5.2   | Lifting speed, laden/unladen                        |       | m/s   | 0.2/0.26           |
| 5.3   | Lowering speed, laden/unladen                       |       | m/s   | 0.4/0.36           |
| 5.8   | Max. gradeability, laden/unladen                    |       | %     | 8/12               |
| 6.1   | Drive motor rating S2 60 min                        |       | kW    | 3                  |
| 6.2   | Lift motor rating at S3 15%                         |       | kW    | 4.5                |
| 6.4   | Battery nominal capacity                            |       | Ah    | 24V/205AH          |
| 6.4   | Battery voltage                                     |       | V     | 24                 |
| 6.4.1 | Battery type                                        |       |       | Li-Ion             |
| 6.5   | Battery weight                                      |       | kg    | 72                 |
| 6.6   | Energy consumption according to DIN EN 16796        |       | kWh/h | 1.01 <sup>1)</sup> |
| 6.7   | Turnover output according to VDI 2198               |       |       | 54.4               |
| 6.8   | Turnover efficiency according to VDI 2198           |       |       | 37                 |
| 8.1   | Type of drive control                               |       |       | AC                 |
| 10.5  | Steering design                                     |       |       | Electronic         |
| 10.7  | Sound pressure level at the drivers ear             |       | dB(A) | 74                 |
| 15.1  | Charger output current                              |       | A     | 100                |





## Mast Options

| MAST TYPE   | LIFT HEIGHT (H3, MM) | MAST LOWERED HEIGHT (H1, MM) | MAST EXTENDED HEIGHT, NO BACKREST (H4, MM) | MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM) |
|-------------|----------------------|------------------------------|--------------------------------------------|----------------------------------------------|
| 2-Wide Mast | 2600                 | 1815                         | 3095                                       |                                              |
| 2-Wide Mast | 3000                 | 2015                         | 3495                                       |                                              |
| 2-Wide Mast | 3300                 | 2185                         | 3835                                       |                                              |
| 2-Wide Mast | 3600                 | 2312                         | 4089                                       |                                              |
| 2-Wide Mast | 3900                 | 2462                         | 4389                                       |                                              |
| 2-Wide Mast | 4150                 | 2592                         | 4649                                       |                                              |
| 2-Free Mast | 2650                 | 1815                         | 3118                                       | 1320                                         |
| 2-Free Mast | 2950                 | 1962                         | 3412                                       | 1470                                         |
| 2-Free Mast | 3250                 | 2115                         | 3718                                       | 1620                                         |
| 3-Free Mast | 4000                 | 1820                         | 4445                                       | 1345                                         |
| 3-Free Mast | 4500                 | 2020                         | 4945                                       | 1545                                         |
| 3-Free Mast | 4800                 | 2115                         | 5245                                       | 1645                                         |
| 3-Free Mast | 5000                 | 2185                         | 5445                                       | 1715                                         |

| MAST TYPE   | LIFT HEIGHT (H3, MM) | MAST LOWERED HEIGHT (H1, MM) | MAST EXTENDED HEIGHT, NO BACKREST (H4, MM) | MAST EXTENDED HEIGHT, WITH BACKREST (H4, MM) |
|-------------|----------------------|------------------------------|--------------------------------------------|----------------------------------------------|
| 3-Free Mast | 5500                 | 2385                         | 5945                                       | 1915                                         |

# Options

| ITEM                            | OPTIONS (optional items marked in yellow)              |
|---------------------------------|--------------------------------------------------------|
| Fork dimension                  | 1150*685   1150*570                                    |
| Load wheel type                 | Double                                                 |
| Load wheel material             | PU                                                     |
| Drive wheel material            | PU   Carved PU   Rubber                                |
| Battery capacity                | 205Ah (Li-ion)   280Ah (Li-ion)                        |
| Charger                         | 24V-50A External (Li-ion)   24V-100A External (Li-ion) |
| Battery display indicator (BDI) | With hourmeter (Bluetooth)                             |
| Buzzer                          | No   Yes and not customized                            |
| Telematics                      | No   Yes and not customized                            |
| Castor wheels                   | Yes and not customized                                 |
| Special AUS/NZ options          | Yes and not customized                                 |
| Operator identification device  | Pin code   Card reader                                 |
| Lifting electronic limit        | Yes and not customized                                 |