

# RT16-LI

**Lithium-ion reach truck with a load capacity of 1600 kg and a lift height of 4500 to 9500 mm**



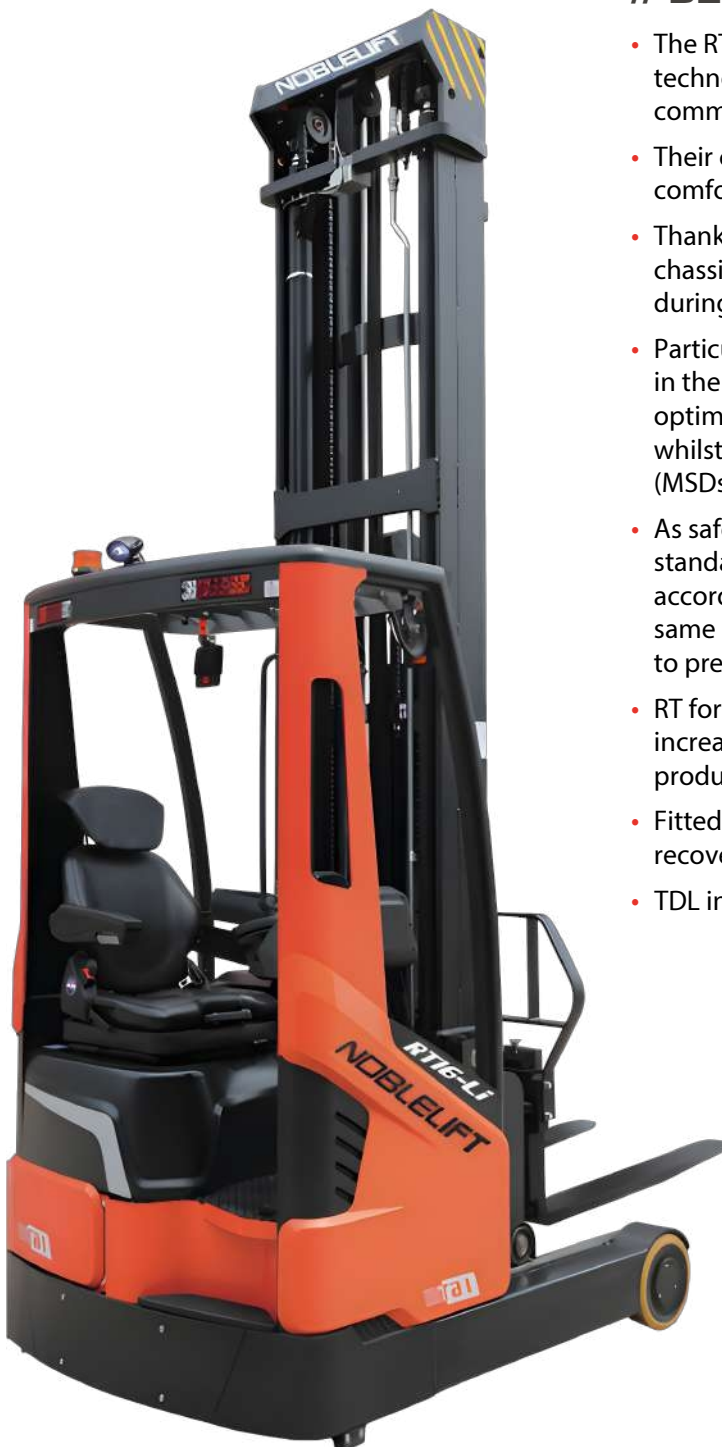
**Safety and reliability**  
**Energy efficiency**

## // BENEFITS

- The RT series reach trucks are at the cutting edge of technology. They are equipped with state-of-the-art communication and information systems and features.
- Their carefully engineered design prioritises operator comfort and boasts a modern aesthetic.
- Thanks to the innovative design of their load-bearing chassis, RT reach trucks ensure perfect stability and safety during high-level warehousing operations
- Particular attention has been paid to visibility and space in the driver's cab, enabling the operator to work in optimal conditions, thereby increasing productivity whilst helping to prevent musculoskeletal disorders (MSDs).
- As safety is paramount, the RT series reach trucks are fitted as standard with an automatic system that reduces travel speed according to the height at which the forks are raised. The same applies when cornering: speed is automatically limited to prevent the truck from tipping over.
- RT forklifts are fitted as standard with a system designed to increase the fork lowering speed in order to boost productivity.
- Fitted as standard with regenerative braking with energy recovery to ensure optimised service life.
- TDL integrated as standard

### Options

- Wireless camera
- Height preselection system
- Side battery removal



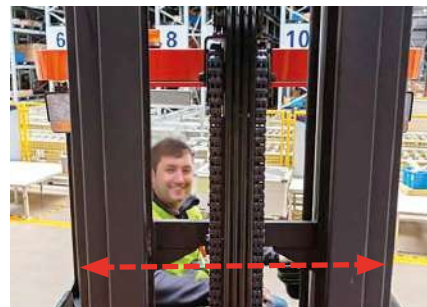
## ROBUST DESIGN AND EXCELLENT STABILITY



The robust chassis structure and weight distribution ensure excellent stability for the forklift.



An ingenious system of shock absorbers and sensors has been fitted to minimise the vibrations and jolts felt by the operator during mast extension.



The mast is just 690 mm wide, allowing the operator to see both sides of the pallet. Furthermore, the positioning of the chains and cylinders has been carefully designed to ensure the best possible visibility for the operator, as has the redesigned roof-mounted cab.

## OPTIONAL FEATURES



· As an option, RT series reach trucks can be fitted with a premium wireless camera: 2.4 GHz frequency, IP 69 rating, powered by an 8000 Ma battery, with a high-resolution 1280 x 960 px (720p) display.



· As an option, RT series reach trucks can also be fitted with a height preselection system, which significantly improves productivity and enhances the safety of stacking operations, particularly at great heights.

· Side-access battery removal.

## HIGH-END COMPONENTS



**Curtis** variable-speed drive  
(German)

**Curtis** control panel  
(German)

**ZF** gearbox  
(German)



**Schabmüller** AC traction motor  
(German)

**Schabmüller** power steering  
(German)

**KDS** lift motor  
(German)



**Buchholz** solenoid valve  
(German)

**Shimadzu** silent gear pump  
(Japanese)



**Fingertip Elobau**  
(German)

**Allright** contactors  
(English)



**Intorq** brakes  
(German)

**Manuli** hydraulic fittings  
and **Manuli** hoses  
(Italian)



**AMP Netconnect** connectors  
(American)

The components used reduce maintenance costs and guarantee the performance and reliability required for the most demanding tasks.

## COMFORTABLE DRIVING AND EASY OPERATION



The intuitive Curtis control panel brings together the key information needed for optimal use of the forklift:

- Option to select pre-set driving modes: intense, comfort, economy;
- Display of the drive wheel's direction;
- Battery level;
- Hour meter;
- Travel speed.



Adjustable and reclining seat with suspension.



Ergonomic cab to ensure optimum operator comfort.



RT reach trucks are fitted as standard with 'fingertip' controls from Elobau, the global leader in this field.



**elobau** e  
tions



The electronic power steering (AC EPS) system ensures smooth and precise steering. The 180°/360° electric steering can be activated in real time simply by pressing a switch.



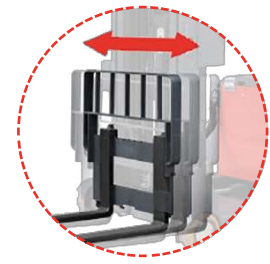
## 10. Reach trucks



The steering wheel is adjustable for height and reach, ensuring greater comfort and an improved driving position.



The control panel is sliding and height-adjustable; it also features a storage compartment.

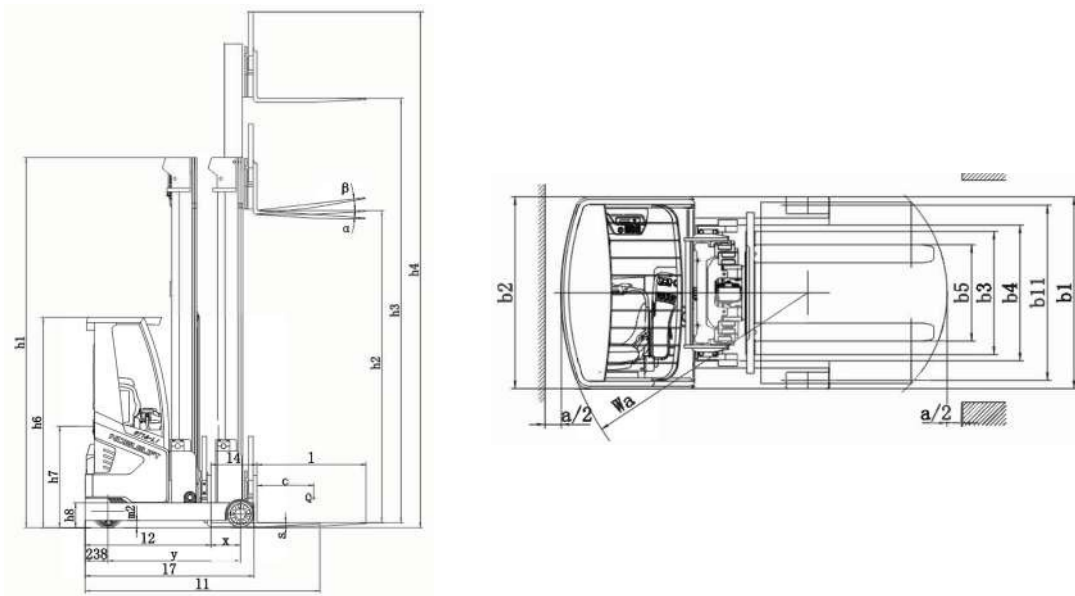


### Side-shift function as standard

The fork side-shift function allows the operator to position a load precisely on a shelf, particularly in narrow spaces, without needing to move the stacker.



The cab roof has been specially designed to ensure better visibility.



| Stockman reference | Mast           | Lowered mast height h1 (mm) | Free lift h2 (mm) | Standard lift h3 (mm) | Mast height when extended h4 (mm) | Load capacity (kg) | Net weight (kg) |
|--------------------|----------------|-----------------------------|-------------------|-----------------------|-----------------------------------|--------------------|-----------------|
| <b>RT16-LI</b>     |                |                             |                   |                       |                                   |                    |                 |
| <b>RT16-LI45</b>   | <b>Triplex</b> | 2235                        | 1563              | 4500                  | 5410                              | 1600               | 3520            |
| <b>RT16-LI50</b>   |                | 2400                        | 1730              | 5000                  | 5910                              | 1600               | 3290            |
| <b>RT16-LI55</b>   |                | 2568                        | 1897              | 5500                  | 6410                              | 1600               | 3330            |
| <b>RT16-LI60</b>   |                | 2735                        | 2063              | 6000                  | 6910                              | 1,600              | 3370            |
| <b>RT16-LI65</b>   |                | 2900                        | 2230              | 6500                  | 7410                              | 1600               | 3410            |
| <b>RT16-LI70</b>   |                | 3068                        | 2397              | 7000                  | 7910                              | 1400               | 3450            |
| <b>RT16-LI75</b>   |                | 3234                        | 2563              | 7500                  | 8410                              | 1200               | 3490            |
| <b>RT16-LI80</b>   |                | 3400                        | 2730              | 8000                  | 8910                              | 1000               | 3530            |
| <b>RT16-LI85</b>   |                | 3567                        | 2897              | 8500                  | 9410                              | 800                | 3570            |
| <b>RT16-LI90</b>   |                | 3734                        | 3063              | 9000                  | 9910                              | 700                | 3610            |
| <b>RT16-LI95</b>   |                | 3900                        | 3230              | 9500                  | 10,410                            | 600                | 3650            |

| Technical specifications in accordance with VDI 2198 |      |                                                             |                |                      |
|------------------------------------------------------|------|-------------------------------------------------------------|----------------|----------------------|
| Specifications                                       | 1.2  | Part number - Model                                         |                | <b>RT16-LI</b>       |
|                                                      | 1.3  | Drive type                                                  |                | electric             |
|                                                      | 1.4  | Drive type                                                  |                | seated               |
|                                                      | 1.5  | Rated capacity                                              | Q (t)          | 1.6                  |
|                                                      | 1.6  | Centre of gravity                                           | c (mm)         | 600                  |
|                                                      | 1.8  | Distance from the deck to the roller centreline             | x (mm)         | 310 / 174            |
|                                                      | 1.9  | Wheelbase                                                   | y (mm)         | 1400                 |
| Weight                                               | 2.1  | Weight with batteries                                       | kg             | see table opposite   |
|                                                      | 2.3  | Axle load without front/rear load                           | kg             | 2200 / 1530          |
|                                                      | 2.4  | Axle load with mast extended and load at front / rear       | kg             | 620 / 4710           |
|                                                      | 2.5  | Axle load with mast retracted and front/rear load           | kg             | 1820 / 3510          |
| Chassis wheels                                       | 3.1  | Wheels                                                      |                | polyurethane (PU)    |
|                                                      | 3.2  | Drive wheel dimensions                                      | Ø x w (mm)     | Ø 343 x 140          |
|                                                      | 3.3  | Front roller dimensions                                     | Ø x w (mm)     | Ø 285 x 110          |
|                                                      | 3.5  | Number of front/rear wheels (x = drive wheel)               |                | 1 x / 2              |
|                                                      | 3.7  | Rear wheel track                                            | b11 (mm)       | 1160                 |
| Dimensions                                           | 4.1  | Tilt of front/rear fork carriage                            | °              | 4 / - 2              |
|                                                      | 4.2  | Lowered mast height                                         | h1 (mm)        | see table opposite   |
|                                                      | 4.3  | Free stroke                                                 | h2 (mm)        | see table opposite   |
|                                                      | 4.4  | Standard stroke                                             | h3 (mm)        | see table opposite   |
|                                                      | 4.5  | Extended mast height                                        | h4 (mm)        | see table opposite   |
|                                                      | 4.7  | Height of upper guard (cab)                                 | h6 (mm)        | 2200                 |
|                                                      | 4.8  | Seat height                                                 | h7 (mm)        | 960                  |
|                                                      | 4.10 | Side rail height                                            | h8 (mm)        | 270                  |
|                                                      | 4.15 | Minimum fork height                                         | h13 (mm)       | 40                   |
|                                                      | 4.19 | Overall length                                              | l1 (mm)        | 2475                 |
|                                                      | 4.20 | Length without forks                                        | l2 (mm)        | 1325                 |
|                                                      | 4.21 | Overall width                                               | b1 (mm)        | 1270                 |
|                                                      | 4.22 | Fork dimensions                                             | s / e / l (mm) | 35 / 100 / 1150      |
|                                                      | 4.25 | Outer fork width                                            | b5 (mm)        | 200 / 740            |
|                                                      | 4.26 | Distance between side rails                                 | b4 (mm)        | 900                  |
|                                                      | 4.28 | Mast overhang                                               | l4 (mm)        | 485                  |
|                                                      | 4.31 | Ground clearance under the mast when loaded                 | m1 (mm)        | 90                   |
|                                                      | 4.32 | Ground clearance                                            | m2 (mm)        | 75                   |
|                                                      | 4.33 | Aisle width with a 1000 x 1200 mm pallet placed crosswise   | Ast (mm)       | 2770                 |
|                                                      | 4.34 | Aisle width with 800 x 1200 mm pallet placed lengthways     | Ast (mm)       | 2820                 |
|                                                      | 4.35 | Turning radius                                              | Wa (mm)        | 1650                 |
|                                                      | 4.37 | Length of spars                                             | l7 (mm)        | 1780                 |
| Performance                                          | 5.1  | Travel speed without / with load                            | km/h           | 10.5 / 10.5          |
|                                                      | 5.2  | Lifting speed without / with load                           | mm/s           | 500 / 680            |
|                                                      | 5.3  | Lowering speed without / with load                          | mm/s           | 400 / 450            |
|                                                      | 5.8  | Permissible gradient without / with load                    | %              | 15 / 10              |
|                                                      | 5.10 | Service brake                                               |                | hydraulic / electric |
| Electrical system                                    | 6.1  | Traction motor, S2 power rating for 60 minutes              | kW             | 6.4                  |
|                                                      | 6.2  | Lifting motor, S3 power 10%                                 | kW             | 12.5                 |
|                                                      | 6.4  | Battery voltage / nominal capacity K5                       | V / Ah         | 48 / 350             |
|                                                      | 6.5  | Battery weight                                              | kg             | 250                  |
| Miscellaneous                                        | 8.1  | Transmission type                                           |                | AC                   |
|                                                      | 8.4  | Sound level at the driver's ear in accordance with EN 12053 | dB (A)         | 68                   |