

# RT16C

Reach truck on tyres with a load capacity of 1600 kg and a lift height of 4500 to 7500 mm



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

## // BENEFITS

- Specially designed for outdoor operations, the RT16C can handle challenging conditions such as uneven ground, unpaved areas or outdoor loading bays. It is ideal for logistics warehouses, port areas or open-air production sites.
- Thanks to a ground clearance of 120 mm, it can easily navigate potholes, bumps, gravel or uneven ground. This feature minimises the risk of snagging on the ground and ensures smooth movement even on rough or uneven terrain.
- The chassis structure has been optimised to provide excellent weight distribution, enhancing the forklift's stability even when carrying heavy loads. This stability improves operator safety and reduces the risk of tipping on slopes or on slippery ground.
- Its compact design, combined with a tight turning circle, allows for excellent manoeuvrability in narrow or congested areas, whilst maintaining high performance. It is ideal for rapid manoeuvres in densely organised outdoor warehouses.
- The RT16C has been reinforced to withstand wear and tear caused by outdoor conditions: dust, damp and temperature fluctuations. Its reliable construction ensures a long service life, even with intensive use on demanding sites.



**PPS TYRES**

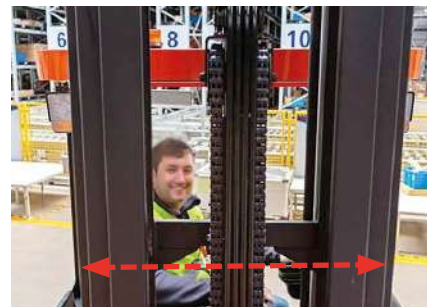
## ROBUST DESIGN AND EXCELLENT STABILITY



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, the RT series reach trucks with a premium wireless camera: 2.4 GHz, IP 69, powered by an 8000 mAh battery, with a high-resolution 1280 x 960 px (720p) display.



- As an option, it is also possible to fit the RT series reach trucks with a height preselection system, which significantly improves productivity and enhances the safety of stacking operations, particularly at great heights.
- TDL integrated as standard on the RT16C.
- 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)



**Elobau** Fingertip  
(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:

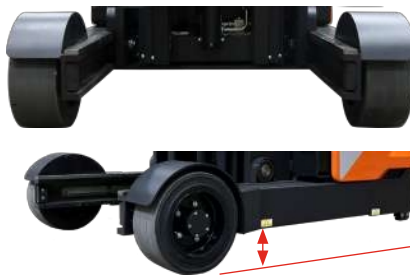
- Option to select pre-set driving modes: intense, comfort, economy;
- Display of the drive wheel's orientation;
- Battery level;
- Hour meter;
- Travel speed.



Adjustable and reclining seat with suspension.



Ergonomic cab to ensure optimum operator comfort.



Its 120 mm ground clearance allows it to navigate uneven terrain with ease whilst avoiding snagging.



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



**elobau**   
sustainable solutions



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.

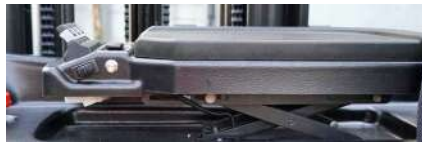




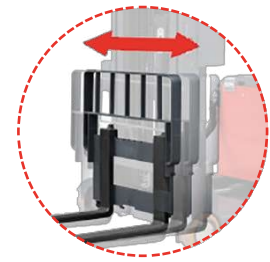
## 10. Reach trucks



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

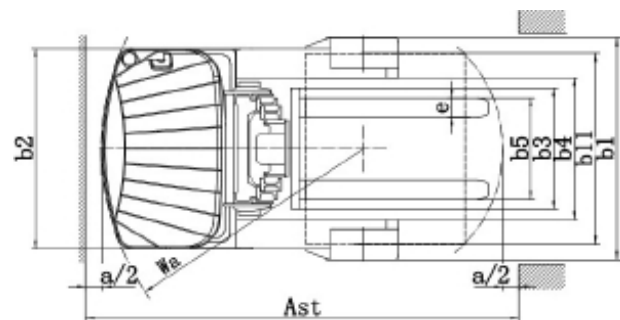
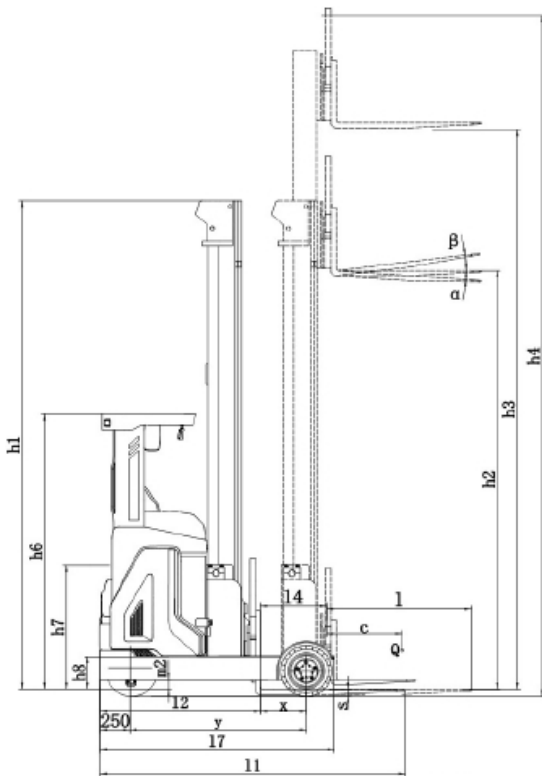


The control panel is slide-adjustable and height-adjustable; it also features a storage compartment.



### Side-shift function as standard

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



| 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>RT16C</b>       |                |                               |                     |                         |                                     |                    |                 |
| <b>RT16C4500</b>   | <b>Triplex</b> | 2281                          | 1563                | 4500                    | 5456                                | 1600               | 3710            |
| <b>RT16C5000</b>   |                | 2446                          | 1730                | 5000                    | 5956                                | 1450               | 3750            |
| <b>RT16C5500</b>   |                | 2614                          | 1897                | 5500                    | 6456                                | 1300               | 3790            |
| <b>RT16C6000</b>   |                | 2781                          | 2063                | 6000                    | 6956                                | 1150               | 3830            |
| <b>RT16C6500</b>   |                | 2946                          | 2230                | 6500                    | 7456                                | 1000               | 3870            |
| <b>RT16C7000</b>   |                | 3114                          | 2397                | 7000                    | 7956                                | 850                | 3910            |
| <b>RT16C7500</b>   |                | 3280                          | 2563                | 7500                    | 8456                                | 750                | 3950            |

| Technical specifications in accordance with VDI 2198 |      |                                                             |                |                              |
|------------------------------------------------------|------|-------------------------------------------------------------|----------------|------------------------------|
| Specifications                                       | 1.2  | Part number - Model                                         |                | RT16C                        |
|                                                      | 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)         | 325 / 270                    |
|                                                      | 1.9  | Wheelbase                                                   | y (mm)         | 1420                         |
| Weight                                               | 2.1  | Weight with batteries                                       | kg             | see table opposite           |
|                                                      | 2.3  | Axle load without front/rear load                           | kg             | 2474 / 1616                  |
|                                                      | 2.4  | Axle load with mast extended and load at front / rear       | kg             | 772 / 4961                   |
|                                                      | 2.5  | Axle load with mast retracted and front/rear load           | kg             | 2131 / 3584                  |
| Chassis wheels                                       | 3.1  | Wheels                                                      |                | PPS                          |
|                                                      | 3.2  | Drive wheel dimensions                                      | Ø x w (mm)     | Ø 16 x 7 x 10.5              |
|                                                      | 3.3  | Front roller dimensions                                     | Ø x w (mm)     | Ø 16 x 7 x 10.5              |
|                                                      | 3.5  | Number of front/rear wheels (x = drive wheel)               |                | 2 / 1 x                      |
|                                                      | 3.7  | Rear wheel track                                            | b11 (mm)       | 1222                         |
| Dimensions                                           | 4.1  | Tilt of front/rear fork carriage                            | °              | 4 / - 2                      |
|                                                      | 4.2  | Height with mast lowered                                    | h1 (mm)        | see table opposite           |
|                                                      | 4.3  | Free lift                                                   | 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)        | 2240                         |
|                                                      | 4.8  | Seat height                                                 | h6 (mm)        | 1130                         |
|                                                      | 4.10 | Side rail height                                            | h8 (mm)        | 270                          |
|                                                      | 4.15 | Minimum fork height                                         | h14 (mm)       | 40                           |
|                                                      | 4.19 | Overall length                                              | l1 (mm)        | 2520                         |
|                                                      | 4.20 | Length without forks                                        | l2 (mm)        | 1338                         |
|                                                      | 4.21 | Overall width                                               | b1 (mm)        | 1400                         |
|                                                      | 4.22 | Fork dimensions                                             | s / e / l (mm) | 40 / 120 / 1150              |
|                                                      | 4.23 | ISO 2328 fork carriage, class/type A, B                     |                | 2                            |
|                                                      | 4.25 | Outer fork width                                            | b5 (mm)        | 200–740 / 200–800            |
|                                                      | 4.26 | Distance between support arms                               | b4 (mm)        | 900                          |
|                                                      | 4.28 | Mast reach                                                  | l4 (mm)        | 595                          |
|                                                      | 4.31 | Ground clearance under the mast when loaded                 | m1 (mm)        | 105                          |
|                                                      |      | Ground clearance, centre of wheelbase                       | m2 (mm)        | 120                          |
|                                                      | 4.33 | Aisle width with 1000 x 1200 mm pallet across               | Ast (mm)       | 2680                         |
|                                                      | 4.34 | Aisle width with 800 x 1200 mm pallet placed lengthways     | Ast (mm)       | 2845                         |
|                                                      | 4.35 | Turning radius                                              | Wa (mm)        | 1770                         |
|                                                      | 4.37 | Length of spars                                             | l7 (mm)        | 1902                         |
| Performance                                          | 5.1  | Travel speed without / with load                            | km/h           | 10 / 10                      |
|                                                      | 5.2  | Lifting speed without / with load                           | mm/s           | 500 / 350                    |
|                                                      | 5.3  | Lowering speed without / with load                          | mm/s           | 450 / 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 / 560 Open-type lead-acid |
|                                                      | 6.5  | Battery weight                                              | kg             | 950                          |
| Miscellaneous                                        | 8.1  | Transmission type                                           |                | AC                           |
|                                                      | 8.4  | Sound level at the driver's ear in accordance with EN 12053 | dB (A)         | 68                           |