

# RT20G

Reach truck with a load capacity of 2000 kg and a lift height of 4500 to 9500 mm

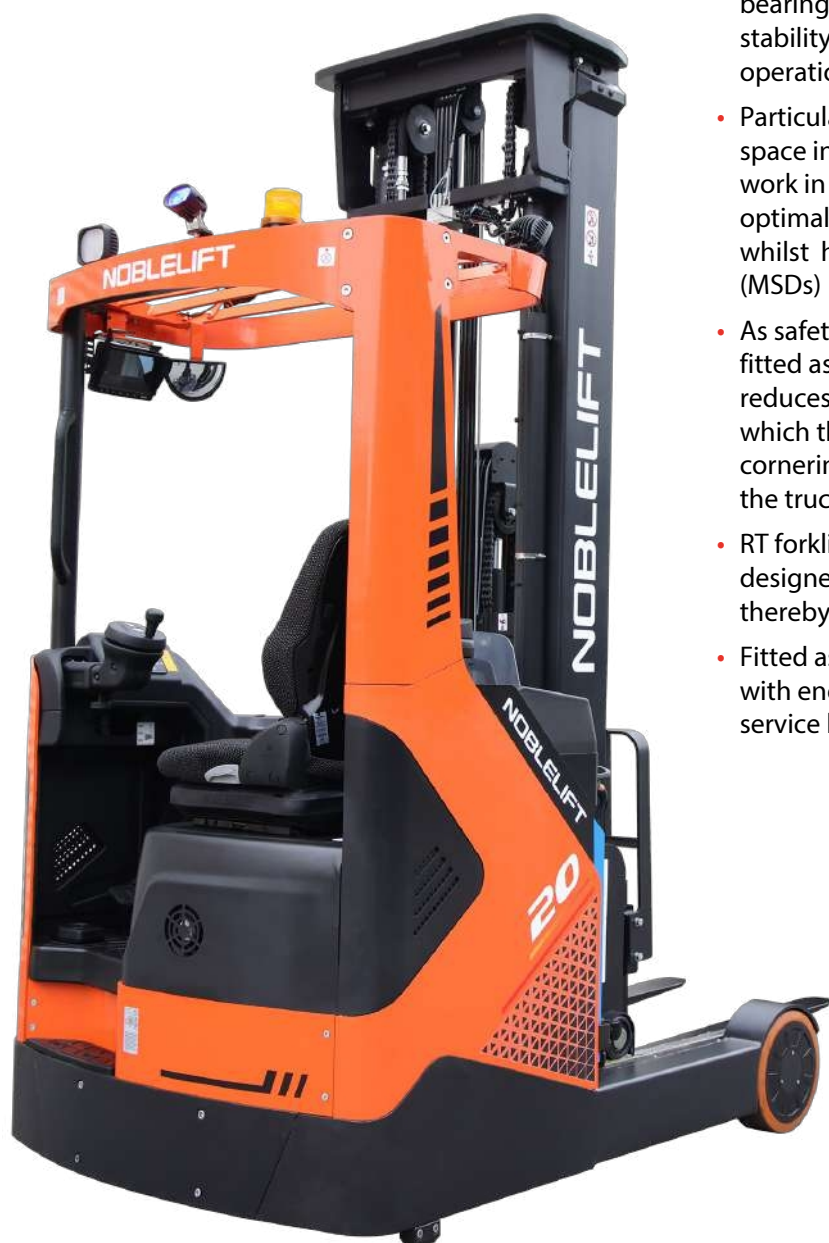


**Safety and reliability**

**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 considered 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, thereby boosting productivity
- Fitted as standard with regenerative braking with energy recovery to ensure optimised service life



## MAXIMUM PRODUCTIVITY AND STATE-OF-THE-ART TECHNOLOGY

- The RT20G is specially designed for indoor warehousing. Its 'zero-emission' lithium battery is ideally suited to working in enclosed spaces.
- Its ultra-compact design allows for easy manoeuvring in narrow aisles.
- Load capacity of 2.0 tonnes + lift height of up to 9.5 metres
- Operational efficiency increased by 40% in challenging conditions; work volume per shift increased by 25%.
- 80V AC drive system and electric steering. It is fitted with a high-performance German transmission and a Curtis controller, ensuring agile steering and efficient handling.
- Maintenance intervals extended by 50 per cent and overall energy consumption reduced by 35 per cent.



## HIGH-END COMPONENTS



**Curtis** drive controller  
(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.

## ROBUST DESIGN AND EXCELLENT STABILITY



The cab offers a wide field of vision and a spacious driver's compartment for greater comfort and precision.



Side shift allows the forks to be moved sideways without moving the forklift.



The high-performance lithium battery is fitted as standard for reliable and long-lasting power.



The engine cooling system ensures efficient heat dissipation for intensive use.



The extra-wide steel masts ensure maximum rigidity and stability during operations.



The HD monitoring system with camera and display enhances safety during operations.



The LED lighting, combined with the Blue Spot spotlight, improves the forklift's visibility and signals its presence for the safety of those nearby.



The centralised hose system groups the hydraulic lines in the centre of the mast to maintain the operator's visibility.



## COMFORTABLE DRIVING AND EASY OPERATION



The colour LCD dashboard displays all the forklift's essential data clearly and legibly.



The electric step adjusts automatically to facilitate access to the cab.



Automatic levelling and centring of the forks are controlled by buttons for greater speed.



The Fingertip controls bring all functions together in a single ergonomic joystick.



The Grammer suspension seat absorbs vibrations to reduce operator fatigue.



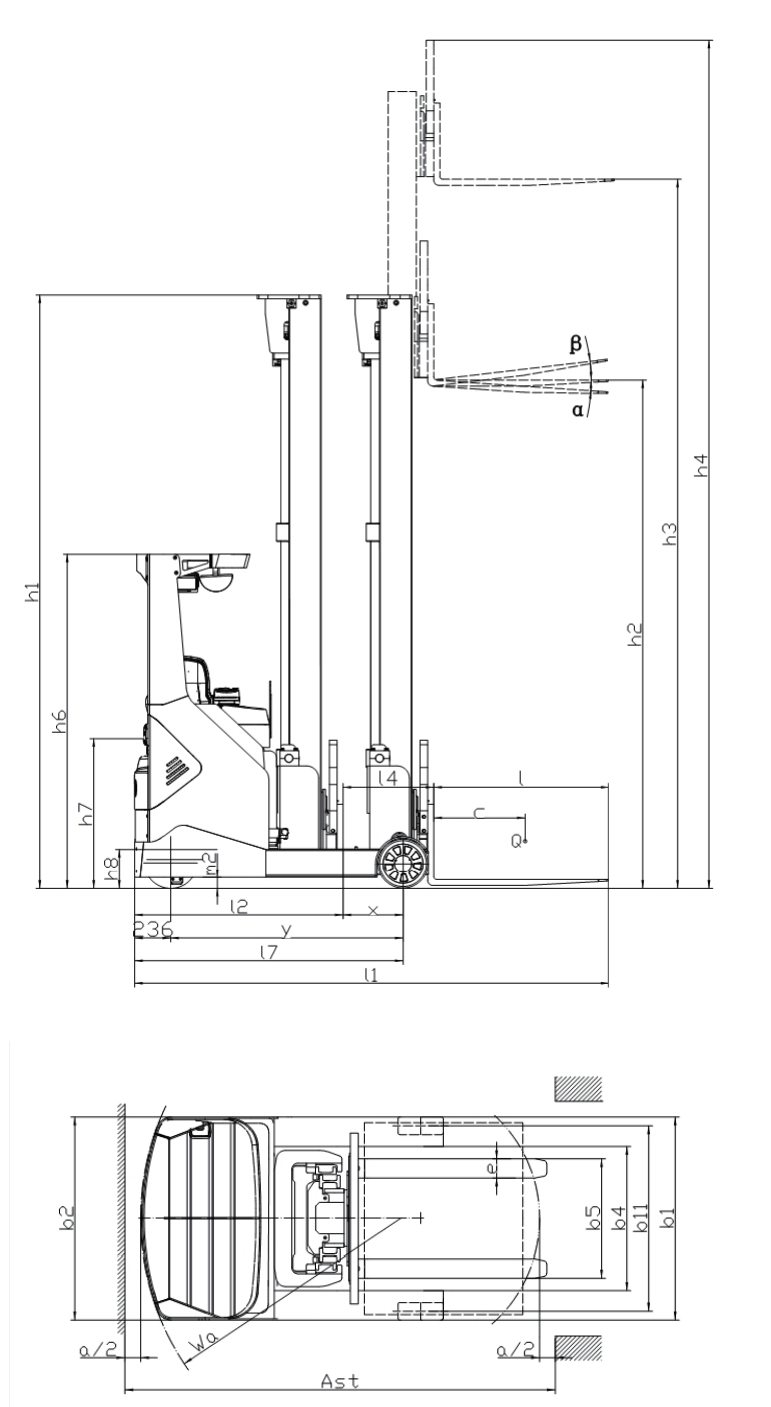
The keypad secures access to the forklift and allows switching between 180° and 360° steering modes.



## ENHANCED SAFETY

- **Height limit:** the motor stops automatically at the end of the stroke to ensure safe lifting at maximum height.
- **Cornering speed:** the system reduces speed when cornering to stabilise the forklift and prevent tipping.
- **Motor temperature:** a thermal monitoring system protects components from damage caused by potential overheating.
- **Motor current:** The electrical control system prevents motor failure by preventing current overloads.
- **Combined braking:** The combination of electromagnetic and hydraulic systems ensures rapid, smooth stops without deviation.
- **Parking brake:** A simple press of a button instantly immobilises the forklift, even on slopes.





| 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>RT20G</b>       |                |                               |                     |                         |                                     |                    |                 |
| <b>RT20G4500</b>   | <b>Triplex</b> | 2235                          | 1563                | 4500                    | 5410                                | 2000               | 3716            |
| <b>RT20G5000</b>   |                | 2400                          | 1730                | 5000                    | 5910                                | 2000               | 3761            |
| <b>RT20G5500</b>   |                | 2568                          | 1897                | 5500                    | 6410                                | 2000               | 3806            |
| <b>RT20G6000</b>   |                | 2735                          | 2063                | 6000                    | 6910                                | 2000               | 3851            |
| <b>RT20G6500</b>   |                | 2900                          | 2230                | 6500                    | 7410                                | 2000               | 3896            |
| <b>RT20G7000</b>   |                | 3068                          | 2397                | 7000                    | 7910                                | 1800               | 3941            |
| <b>RT20G7500</b>   |                | 3234                          | 2563                | 7500                    | 8410                                | 1600               | 3986            |
| <b>RT20G8000</b>   |                | 3,400                         | 2730                | 8000                    | 8910                                | 1400               | 4031            |
| <b>RT20G8500</b>   |                | 3567                          | 2897                | 8500                    | 9410                                | 1200               | 4076            |
| <b>RT20G9000</b>   |                | 3734                          | 3063                | 9000                    | 9910                                | 1000               | 4121            |
| <b>RT20G9500</b>   |                | 3900                          | 3230                | 9500                    | 10410                               | 800                | 4166            |

| Technical specifications in accordance with VDI 2198 |      |                                                             |                |                      |
|------------------------------------------------------|------|-------------------------------------------------------------|----------------|----------------------|
| Specifications                                       | 1.2  | Part number - Model                                         |                | RT20G                |
|                                                      | 1.3  | Drive type                                                  |                | electric             |
|                                                      | 1.4  | Drive type                                                  |                | seated               |
|                                                      | 1.5  | Rated capacity                                              | Q (t)          | 2                    |
|                                                      | 1.6  | Centre of gravity                                           | c (mm)         | 600                  |
|                                                      | 1.8  | Distance from the deck to the roller centreline             | x (mm)         | 385 / 200            |
|                                                      | 1.9  | Wheelbase                                                   | y (mm)         | 1530                 |
| Weight                                               | 2.1  | Weight with batteries                                       | kg             | see table opposite   |
|                                                      | 2.3  | Axle load without front/rear load                           | kg             | 2554 / 1563          |
|                                                      | 2.4  | Axle load with mast extended and load at front / rear       | kg             | 713 / 5484           |
|                                                      | 2.5  | Axle load with mast folded and front/rear load              | kg             | 2231 / 3922          |
| Chassis wheels                                       | 3.1  | Wheels                                                      |                | PU                   |
|                                                      | 3.2  | Drive wheel dimensions                                      | Ø x w (mm)     | Ø 343 x 140          |
|                                                      | 3.3  | Front roller dimensions                                     | Ø x w (mm)     | Ø 330 x 110          |
|                                                      | 3.5  | Number of front/rear wheels (x = drive wheel)               |                | 2 / 1 x              |
|                                                      | 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 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 the upper guard (cab)                             | h6 (mm)        | 2200                 |
|                                                      | 4.8  | Seat height                                                 | h6 (mm)        | 1090                 |
|                                                      | 4.10 | Side rail height                                            | h8 (mm)        | 270                  |
|                                                      | 4.15 | Minimum fork height                                         | h14 (mm)       | 40                   |
|                                                      | 4.19 | Overall length                                              | l1 (mm)        | 2525                 |
|                                                      | 4.20 | Length without forks                                        | l2 (mm)        | 1382                 |
|                                                      | 4.21 | Overall width                                               | b1 (mm)        | 1270                 |
|                                                      | 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)        | 240–740 / 240–818    |
|                                                      | 4.26 | Distance between support arms                               | b4 (mm)        | 900                  |
|                                                      | 4.28 | Mast reach                                                  | l4 (mm)        | 585                  |
|                                                      | 4.31 | Ground clearance under the mast when loaded                 | m1 (mm)        | 90                   |
|                                                      |      | Ground clearance, centre of wheelbase                       | m2 (mm)        | 75                   |
|                                                      | 4.33 | Aisle width with 1000 x 1200 mm pallet across               | Ast (mm)       | 2826                 |
|                                                      | 4.34 | Aisle width with 800 x 1200 mm pallet placed lengthways     | Ast (mm)       | 2874                 |
| Performance                                          | 4.35 | Turning radius                                              | Wa (mm)        | 1767                 |
|                                                      | 4.37 | Length of spars                                             | l7 (mm)        | 1930                 |
|                                                      | 5.1  | Travel speed without / with load                            | km/h           | 14 / 14              |
|                                                      | 5.2  | Lifting speed without / with load                           | mm/s           | 580 / 450            |
|                                                      | 5.3  | Lowering speed without / with load                          | mm/s           | 500 / 500            |
|                                                      | 5.4  | Mast speed                                                  | mm/s           | 120 / 120            |
| Electrical system                                    | 5.8  | Permissible gradient without / with load                    | %              | 15 / 10              |
|                                                      | 5.10 | Service brake                                               |                | hydraulic / electric |
|                                                      | 6.1  | Traction motor, S2 power rating for 60 minutes              | kW             | 8.1                  |
|                                                      | 6.2  | Lifting motor, S3 power 10%                                 | kW             | 20                   |
| Miscellaneous                                        | 6.4  | Battery voltage / nominal capacity K5                       | V / Ah         | 76 / 300             |
|                                                      | 6.5  | Battery weight                                              | kg             | 500                  |
| Miscellaneous                                        | 8.1  | Transmission type                                           |                | AC                   |
|                                                      | 8.4  | Noise level at the driver's ear in accordance with EN 12053 | dB (A)         | 62                   |