




the power of clean energy



R30N
R35C
R40C



The Carer forklifts range is meant to be a practical response to the demands of handling many application areas. And 'the fruit of attention and listening to our customers who have reserved all these years. We understand however that every activity and every company has its own characteristics that determine its competitive advantage. So we are ready to share your ideas and transform them as quickly as possible in a new logistics solution.

Carer has a wide range of three and four wheels electric forklifts with capacity ranging from 0.8 to 25 t, chosen by careful, demanding and international customers.

CARER'S STYLE

The achievement of an innovative design cannot escape a stylistic study. Though not essential, it is, however, a determining factor in visually infusing the manufacturing approach underlying the design.

This truck series distinguish itself for its high performances, reliability and also for ensuring safety.

carer

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COMFORT

Driving position is functional and spacious, moreover it offers maximum visibility in every direction. The layout of controls and instruments on board follow the ergonomic dimensioning. The comfortable seat has a wide range of adjustments



INSTRUMENTATION

Just one glance to have everything under control.

Forklift drivers should never be distracted!

Checking many instruments on the dashboard diverts operator's attention.

CARER decided to condense into a single, comprehensive tool of control with back lighted LCD all details on the functionality of the truck.

The display indicates the state of battery charge.

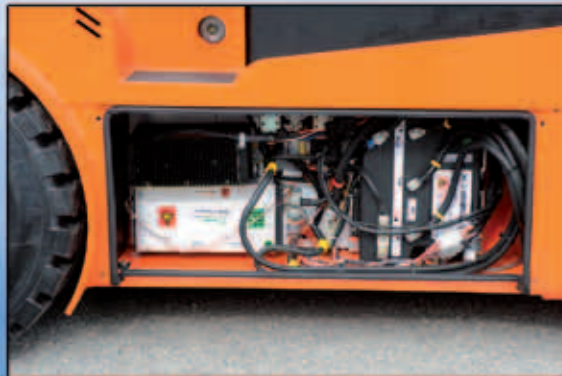
When the battery reaches the discharge limit, the tool locks the lifting function.

Moreover, the display shows also the worked hours and any malfunction.



ELECTRONICS

All truck functions are managed by sophisticated microprocessor-controlled high frequency MOS electronics and regenerative braking. Energy regeneration on breaking, on releasing the accelerator and on reversing the direction.



MOTORS

CARER motors are highly efficient and powerful.

They are tested and built used the most advanced technologies.

The armatures is vacuum-impregnated with resin. Armature winding with strap and welding to the commutator are carried out using the copper-on-copper process. They feature field weakening and H-class insulation.

The absence of sparking on the commutator ensures improved life.

DRIVE

Traction is ensured by the front differential designed by CARER. The helical teeth gears minimize the noise level.



MASTS

The lift units allow excellent visibility. The lift cylinders are external to the profiles. The integrated side shift does not reduce the rated capacity of the truck. The mast profiles are cold treated to provide optimum resistance to bending and twisting, moreover ensuring greater load stability at high lift heights.



STEERING AXLE

Narrow spaces are no longer a problem. CARER trucks are equipped with a sturdy axle featuring wide turning angles.

POWER STEERING

To further enhance dynamic qualities, CARER has equipped its trucks with a smooth and accurate steering. The steering system uses a very potent power steering with Load Sensing system, compensated at two levels to reduce the required power level and offer precision of the guide through the lightness of the steering wheel.

BRAKING SYSTEM

The braking system is powerful and can be well modulated. The friction material used is asbestos free. Regenerative electronic braking can be used at all times with adjustable intensity.



ELECTRIC FORKLIFTS

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| | | | | | | | |
|------------------|-------|--|--------------|--------|------------------------------|----------------------------|------------------|
| SPECIFICATIONS | 1,1 | Manufacturer | | | CARER | | |
| | 1,2 | Model | | | R30N | R35C | R40C |
| | 1,3 | Power unit: electric, diesel, L.P.G. | | | electric | | |
| | 1,4 | Drive: hand operated, on foot, seated operator | | | seated driver | | |
| | 1,5 | Capacity | Q | (t) | 3.0 | 3.5 | 4.0 |
| | 1,6 | Load centre | C | (mm) | 500 | | |
| | 1,8 | Load distance | X | (mm) | 440 (1) | 540 (1) | |
| | 1,9 | Wheelbase | Y | (mm) | 1600 | 1640 | |
| WEIGHTS | 2,1 | Weight | | (kg) | 4900 | 6000 | 6500 |
| | 2,2 | Axle weight with nominal load front/rear | | (kg) | 7060/840 | 8530/970 | 9390/1110 |
| | 2,3 | Axle dead weight front/rear | | (kg) | 2300/2600 | 2810/3190 | 2850/3650 |
| WHEELS AND TYRES | 3,1 | Tyres type: CU=cushion, SE=superelastic, PN=pneumatic, SEG=twin superel. VLK=vulkollan | C - SE - SEG | | | | |
| | 3,2 | Front wheels dimensions | | | 559x203 - 23x10-12 - 6.50-10 | 711x254 - 250-15 - 7.00-15 | |
| | 3,3 | Rear wheels dimensions | | | 432x152 - 18x7-8 | 533x152 - 21x8-9 | 533x178 - 21x8-9 |
| | 3,5 | Wheels: front/rear number (x=drivewheels) | | | 2X/2 (SEG: 4X/2) | | |
| | 3,6 | Front tread | b10 | (mm) | 949 - 949 - 1073 | 997 - 997 - 1081 | |
| DIMENSIONS | 3,7 | Rear traed | b11 | (mm) | 826 | 902 | |
| | 4,1 | Tilt lifting group, α =forward / β =backward | α/β | (°) | 4/7 | 4/10 | |
| | 4,2 | Minimum collapsed mast height | h1 | (mm) | 2220 | 2470 | |
| | 4,3 | Free lift | h2 | (mm) | 140 | 150 | |
| | 4,4 | Lifting height | h3 | (mm) | 3290 | 3290÷3540 | |
| | 4,5 | Maximum collapsed mast height | h4 | (mm) | 3835 | 4200 | |
| | 4,7 | Height of operator's overhead protection guard | h6 | (mm) | 2250 | 2500 | |
| | 4,8 | Seat height | h7 | (mm) | 1235 | 1440 | |
| | 4,12 | Towing hook height | h10 | (mm) | 560 | 600 | |
| | 4,19 | Overall length | L1 | (mm) | 3385 | 3600 | |
| | 4,20 | Length including fork thickness | L2 | (mm) | 2385 | 2600 | |
| | 4,21 | Maximum width | b1/b2 | (mm) | 1175 - 1190 / 1451 | 1270 - 1225 / 1470 | |
| | 4,22 | Fork dimensions | exsXL | (mm) | 120x45x1000 | 150x50x1000 | |
| | 4,23 | Fork carriage width iso 2328/30, FEM/A,B | | | 3A | | |
| | 4,24 | Fork carriage width | b3 | (mm) | 980 | 1100 | |
| | 4,31 | Mast height from ground (braking of load) | m1 | (mm) | 120 | 140 | |
| | 4,32 | Centre from ground (braking of load) | m2 | (mm) | 120 | 165 | |
| | 4,33 | Aisle width with pallet 1000x1200 and 1200 side loading | Ast | (mm) | 4420 | 4355 | |
| | 4,34 | Aisle width with pallet 800x1200 and 800 side loading | Ast | (mm) | 4555 | 4590 | |
| | 4,35 | Turning radius | Wa | (mm) | 2250 | 2290 | |
| PERFORMANCE | 4,36 | Minimum distance from the truck centre line rotation travel speed | b13 | (mm) | 745 | 760 | |
| | 5,1 | Travel speed, loaded/unloaded | | (km/h) | 16/18 | 15/16.5 | 14/15.5 |
| | 5,2 | Lift speed, loaded/unloaded | | (m/s) | 0.30/0.50 | 0.28/0.42 | 0.21/0.42 |
| | 5,3 | Lift descent speed, loaded/unloaded | | (m/s) | 0.40/0.35 | 0.50/0.40 | |
| | 5,5 | Drawbar pull, loaded/unloaded (S2 60') | | (N) | 4500/5000 | 3700/4100 | 3500/4000 |
| | 5,6 | Max. drawbar pull, loaded/unloaded (S2 5') | | (N) | 11400/11800 | 9000/9500 | 8900/9400 |
| | 5,7 | Surmountable gradient loaded/unloaded (S2 30') | | (%) | 8.1/15 | 5.5/10 | 4.5/9.0 |
| | 5,8 | Max. surmountable gradient, loaded/unloaded (S2 5') | | (%) | 14/24 | 9.5/16 | 8.0/14 |
| | 5,9 | Acceleration time | | (s) | 5.0/4.5 | 7.0/6.5 | 7.2/6.7 |
| ENGINE / BATT. | 5,10 | Service brake: mech./hydr./electr. | | | hydraulic/electronic | | |
| | 6,1 | Drive motor, power (S2 60') | | (kW) | 14 | 14 | |
| | 6,2 | Lift-motor, power (S3 20%) | | (kW) | 15 | 15 | |
| | 6,4 | Battery's voltage | U | (V) | 80 | | |
| | 6.4.1 | Rated capacity | K5 | (Ah) | 560 (2) | 560 (2) | 735 (2) |
| OTHERS | 6,5 | Battery min/max weight | | (kg) | 1500/2100 | 1600/2100 | 1700/2100 |
| | 8,1 | Command type | | | mosfet | | |
| | 8,2 | Equipment work pressure | | (bar) | 160 | | |
| | 8,4 | Noise level at driver's ear | | (dBA) | - | | |

VDI 2198

Rev 2 29/03/11

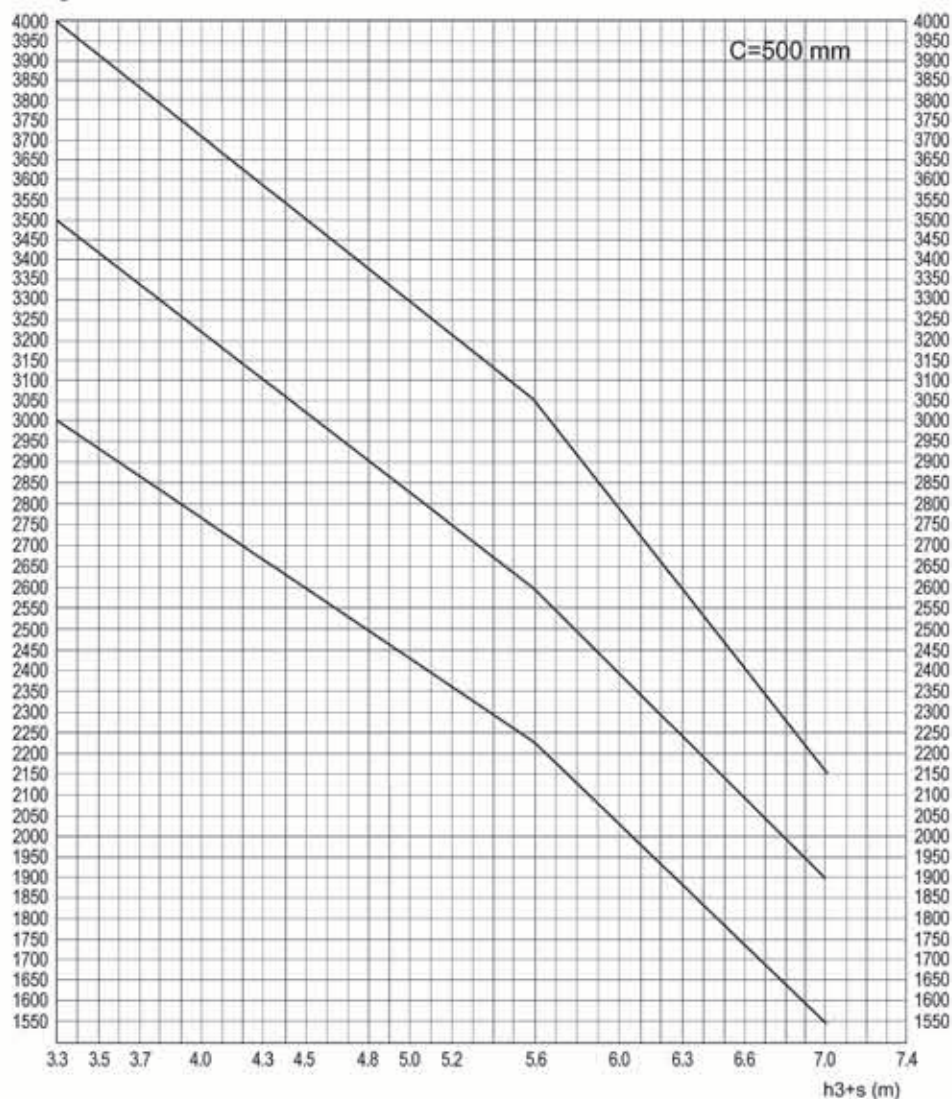
(1) Integrated side shifter

(2) Other capabilities on demand

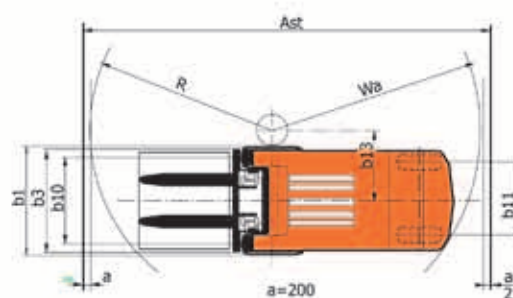
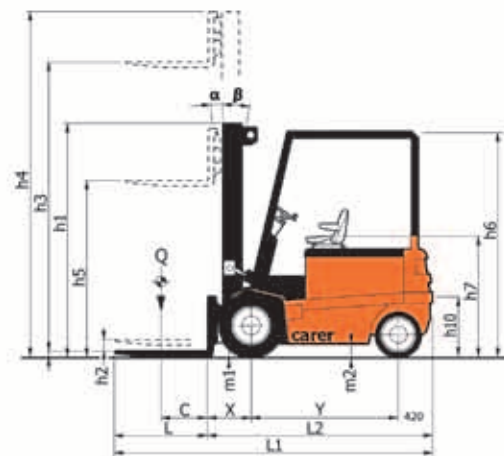
The performance data refer to the forklift truck in perfect working order, with battery weighing no less than the minimum indicated, recharged, well preserved and a voltage (closed circuit) not less than the rated capacity.

R40 C
R35 C
R30 N

Q (kg)



R30N
R35C
R40C





CARER srl

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