



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.

The exclusive line of quality.

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.

CARER has always stood out for the autonomous and innovative personalization of its trucks and has emphasized this quality once again, giving aggressive and straight lines to this new product which is at the top for ensuring safety, designed-in quality and performance.





COMFORT

Driving position is large and offers maximum visibility in every direction. The layout of controls and instruments on board follow the ergonomic dimensioning. The large cushioned seat is adjustable in every direction and even under the operator weight. Lateral armrests are reclining. Two wide steps facilitate access to driver's compartment.

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 hours worked.



ELECTRONICS

All truck functions are managed by sophisticated microprocessor-controlled high frequency MOS electronics and regenerative braking. Traction, lifting and power steering control. Energy regeneration on breaking, on releasing the accelerator and on reversing the direction with the possibility to modify the pre-set parameters. Absolute softness and high efficiency featured by the motor-control system assembly.
The single panel for easy cleaning and maintenance.

Top-class performance in safety! 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-oncopper process. They feature field weakening and H-class insulation. The absence of sparking on the commutator ensures improved life.







MASTS

The lift units allow excellent visibility.
The lift cylinders are external to the profiles.
The integrated side shift (optional) 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.





BATTERY

There are several different batteries of various amperage available.

The sliding battery cover can be opened without effort.

DRIVE

The front differential gear is composed of a double reducer: the first one consists of a bevel gear set instead the second one is directed to the wheels through epicycloidal reducers.

STEERING AXLE

CARER fork trucks are equipped with a sturdy axle featuring elevated steering angles

The hydraulic cylinder is in a protected position and utilize the kinematics through ball joints and bearings.

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, driven by a dedicated engine, to combine the lightness of the steering wheel with the precision of the guide.

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.



ELE	ECT	TRIC FORKLIFTS			R40NR	R45NR	R50NR	R40N	R45N	R50N	
	1,1	Manufacturer				CARER					
SPECIFICATIONS	<u> </u>	Model			R40NR	R45NR	R50NR	R40N	R45N	R50N	
	_				electric						
	1,4	Drive: hand operated, on foot, seated operator				seated driver					
	1,5	Capacity	Q	(t)	4.0	4.5	5.0	4.0	4.5	5.0	
	1,6	Load centre	С	(mm)	50	00	600	5	00	600	
	1,8	Load distance	Х	(mm)	565 (1)		625 (1)	565 (1)		625 (1)	
	1,9	Wheelbase	Υ	(mm)	1700		1875	17	'00	1875	
WEIGHTS	2,1	Weight		(kg)	6500	6950	8800	6500	6950	8800	
		Axle weight with nominal load front/rear		w(kg)	9450/1050	10150/1300	12400/1400	9450/1050	10150/1300	12400/1400	
	_	Axle dead weight front/rear		(kg)	3000/3500	2900/4050	4100/4700	3000/3500	2900/4050	4100/4700	
	2,3	-		(Ny)	3000/3300	2900/4030	4100/4700	3000/3300	2900/4030	4100/4700	
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			711x254 - 250-15 - 7.00-15		711x305 - 355/65- 15 - 8.25-15	711x254 - 250-15 - 7.00-15		711x305 - 355/65- 15 - 8.25-15	
≱	<u> </u>	Rear wheels dimensions			533x178 - 21x8-9		559x203 - 23x9-10			559x203 - 23x9-10	
	_	Wheels: front/rear number (x=drivewheels)			2X/2 (SEG: 4X/2)			2X/2 (SEG: 4X/2)		1	
		Front tread	b10	(mm)	1140 - 1168 - 1296		1100 - 1100 - 1300			1100 - 1100 - 1300	
	<u> </u>	Rear traed	b11	(mm)	992		1026	992		1026	
	4,1	Tilt lifting group, α=forward / β=backward	α/β	(°)	4/12 (2)			4/12 (2)		T	
PERFORMANCE DIMENSIONS	4,2	Minimum collapsed mast height	h1	(mm)	2470		2511	2470		2511	
	<u> </u>	Free lift	h2	(mm)	150		0	150		0	
	_	Lifting height	h3	(mm)	3290÷3540		3275÷3542	3290÷3540		3275÷3542	
	_	Maximum collapsed mast height	h4	(mm)	4200		4327	4200		4327	
	<u> </u>	Height of operator's overhead protection guard	h6	(mm)	2500 1435		2550	2500 1435		2550	
	_	Seat height	h7	(mm)			1485			1485	
		Towing hook height	h10	(mm)	3635	3695	700 4160	3635	45 3695	700 4160	
		Overall length Length including fork thickness	L1 L2	(mm)	2635	2695	2960	2635	2695	2960	
		Maximum width	b1/b2	(mm)	1390/		1400/1735		/1710	1400/1735	
	_	Fork dimensions	exsxL	(mm)	150x50x1000		150x60x1200			150x60x1200	
	- -	Fork carriage width iso 2328/30, FEM/A,B	CASAL	(111111)	3A		4A	150x50x1000 3A		4A	
		Fork carriage width	b3	(mm)	1150		1300	1150		1300	
	_	Mast height from ground (braking of load)	m1	(mm)	140		170	140		170	
		Centre from ground (braking of load)	m2	(mm)	175		195	175		195	
	1,02	Aisle width with pallet 1000x1200 and 1200									
		side loading Aisle width with pallet 800x1200 and 800 side	Ast	(mm)	4835	4885	5070	4835	4885	5070	
	4,34	loading	Ast	(mm)	4860	4910	5100	4860	4910	5100	
	4,35	Turning radius	Wa	(mm)	2465	2515	2655	2465	2515	2655	
	4,36	Minimum distance from the truck centre line rotation travel speed	b13	(mm)		900		900			
	5,1	Travel speed, loaded/unloaded		(km/h)	18/21.6	17.6/21	16.8/19.2	15/17.4	14.6/17.2	14/16	
	<u> </u>	Lift speed, loaded/unloaded		(m/s)	0.36/0.56	0.35/0.54	0.33/0.50	0.30/0.47	0.28/0.45	0.28/0.45	
	_	Lift descent speed, loaded/unloaded		(m/s)	1,5-1	0.50/0.40		0.45 - 1	0.50/0.40		
	<u> </u>	Drawbar pull, loaded/unloaded (S2 60')		(N)	6400/6900	6200/6900	5800/6500	6400/6900	6200/6900	5800/6500	
	<u> </u>	Max. drawbar pull, loaded/unloaded (S2 5')		(N)	14700/15200	14500/15100	14100/14800	14700/15200	14500/15100	14100/14800	
	5,7	Surmountable gradient loaded/unloaded (S2 30')		(%)	8.5/15	7.5/14	6.0/10.5	8.5/15	7.5/14	6.0/10.5	
	_	Max. surmountable gradient, loaded/unloaded (S2 5')		(%)	14/23	12/21	10/16	14/23	12/21	10/16	
Ë	_	Acceleration time		(s)	5.2/5.0	5.4/5.2	5.2/5.0	6.0/5.5	6.2/5.7	6.0/5.5	
/B/		Service brake: mech./hydr./electr.		(4)40	20		hydraulic/electric			20	
ENGINE / BATT.	6,1	Drive motor, power (\$2.60')		(kW)	20 18		24	17 15		20	
	<u> </u>	Lift-motor, power (S3 20%)	U	(kW)			19	15 16 80			
OTHERS	-	Battery voltage Rated capacity	K5	(V) (Ah)		560 (3)	640 (3)				
	_	Battery min/max weight	νO	(AII) (kg)		1900/2600	1900/2550				
		Command type		(ng)	1900/2600 1900/2550 mosfet						
		Equipment work pressure		(bar)		160					
		Noise level at driver's ear		(dBA)							
	0,7			(abrij	-						

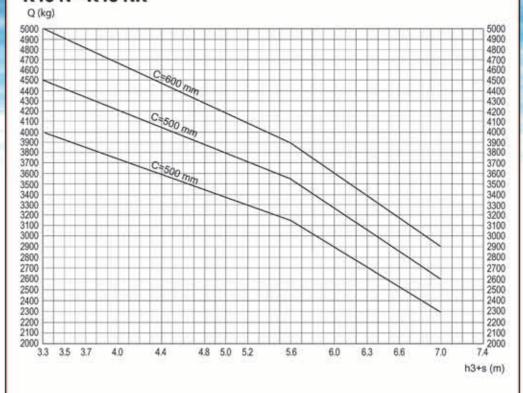
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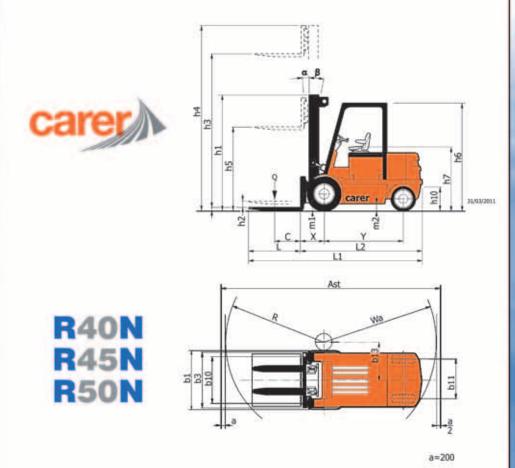
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(1) Integrated side shifter. (2) Lifting height > 4.5 m, $3^{\circ}/7^{\circ}$. (3) Other capabilities on demand.

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.the rated capacity.

R50 N - R50 NR R45 N - R45 NR R40 N - R40 NR







CARER srl

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