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carer

the power of clean energy

R40N
R45N
R50N

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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.

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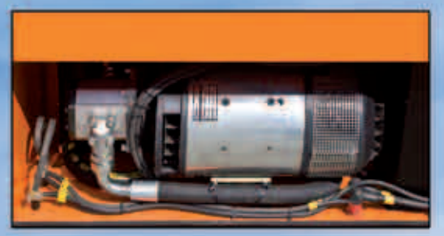
MASTS
The lift units allow excellent visibility.
The lift cylinders are external to the profiles.
The integrated side shift (optional) does not reduce the rated capacity of the truck.
The mast profiles are cold treated to provide optimum resistance to bending and twisting, moreover ensuring greater load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

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.

BATTERY
There are several different batteries of various amperage available.
The sliding battery cover can be opened without effort.

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.



MOTORS
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-on-copper process.
They feature field weakening and H-class insulation.
The absence of sparking on the commutator ensures improved life.

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.

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ELECTRIC FORKLIFTS

					R40NR	R45NR	R50NR	R40N	R45N	R50N
SPECIFICATIONS	1,1	Manufacturer			CARER					
	1,2	Model			R40NR	R45NR	R50NR	R40N	R45N	R50N
	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)	4.0	4.5	5.0	4.0	4.5	5.0
	1,6	Load centre	C	(mm)	500		600	500		600
	1,8	Load distance	X	(mm)	565 (1)		625 (1)	565 (1)		625 (1)
	1,9	Wheelbase	Y	(mm)	1700		1875	1700		1875
WEIGHTS	2,1	Weight		(kg)	6500	6950	8800	6500	6950	8800
	2,2	Axle weight with nominal load front/rear		w(kg)	9450/1050	10150/1300	12400/1400	9450/1050	10150/1300	12400/1400
	2,3	Axle dead weight front/rear		(kg)	3000/3500	2900/4050	4100/4700	3000/3500	2900/4050	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
	3,3	Rear wheels dimensions			533x178 - 21x8-9		559x203 - 23x9-10	533x178 - 21x8-9		559x203 - 23x9-10
	3,5	Wheels: front/rear number (x=drivewheels)			2X/2 (SEG: 4X/2)			2X/2 (SEG: 4X/2)		
DIMENSIONS	3,6	Front tread	b10	(mm)	1140 - 1168 - 1296		1100 - 1100 - 1300	1140 - 1168 - 1296		1100 - 1100 - 1300
	3,7	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)		
	4,2	Minimum collapsed mast height	h1	(mm)	2470		2511	2470		2511
	4,3	Free lift	h2	(mm)	150		0	150		0
	4,4	Lifting height	h3	(mm)	3290÷3540		3275÷3542	3290÷3540		3275÷3542
	4,5	Maximum collapsed mast height	h4	(mm)	4200		4327	4200		4327
	4,7	Height of operator's overhead protection guard	h6	(mm)	2500		2550	2500		2550
	4,8	Seat height	h7	(mm)	1435		1485	1435		1485
	4,12	Towing hook height	h10	(mm)	645		700	645		700
	4,19	Overall length	L1	(mm)	3635	3695	4160	3635	3695	4160
	4,20	Length including fork thickness	L2	(mm)	2635	2695	2960	2635	2695	2960
	4,21	Maximum width	b1/b2	(mm)	1390/1710		1400/1735	1390/1710		1400/1735
	4,22	Fork dimensions	exsxL	(mm)	150x50x1000		150x60x1200	150x50x1000		150x60x1200
	4,23	Fork carriage width iso 2328/30, FEM/A,B			3A		4A	3A		4A
	4,24	Fork carriage width	b3	(mm)	1150		1300	1150		1300
	4,31	Mast height from ground (braking of load)	m1	(mm)	140		170	140		170
	4,32	Centre from ground (braking of load)	m2	(mm)	175		195	175		195
	4,33	Aisle width with pallet 1000x1200 and 1200 side loading	Ast	(mm)	4835	4885	5070	4835	4885	5070
	4,34	Aisle width with pallet 800x1200 and 800 side loading	Ast	(mm)	4860	4910	5100	4860	4910	5100
PERFORMANCE	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
	5,2	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
	5,3	Lift descent speed, loaded/unloaded		(m/s)	0.50/0.40			0.50/0.40		
	5,5	Drawbar pull, loaded/unloaded (S2 60')		(N)	6400/6900	6200/6900	5800/6500	6400/6900	6200/6900	5800/6500
	5,6	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
	5,8	Max. surmountable gradient, loaded/unloaded (S2 5')		(%)	14/23	12/21	10/16	14/23	12/21	10/16
ENGINE / BATT.	5,9	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
	5,10	Service brake: mech./hydr./electr.			hydraulic/electric					
	6,1	Drive motor, power (S2 60')		(kW)	20		24	17		20
	6,2	Lift-motor, power (S3 20%)		(kW)	18		19	15		16
	6,4	Battery voltage	U	(V)	96			80		
OTHERS	6.4.1	Rated capacity	K5	(Ah)	560 (3)			640 (3)		
	6,5	Battery min/max weight		(kg)	1900/2600			1900/2550		
	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 - aggiornata 29-03-2011

(1) Integrated side shifter. (2) Lifting height > 4.5 m, 3°/ 7°. (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.

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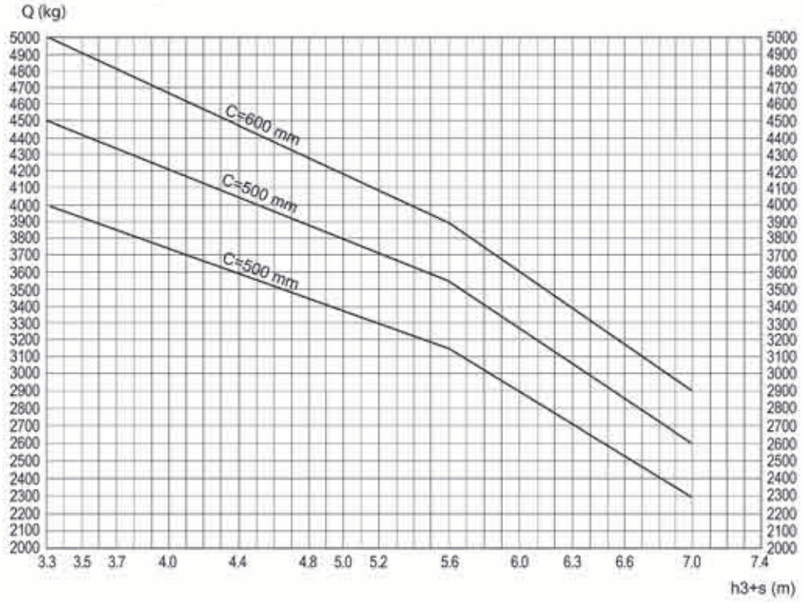
R45 N - R45 NR
R40 N - R40 NR



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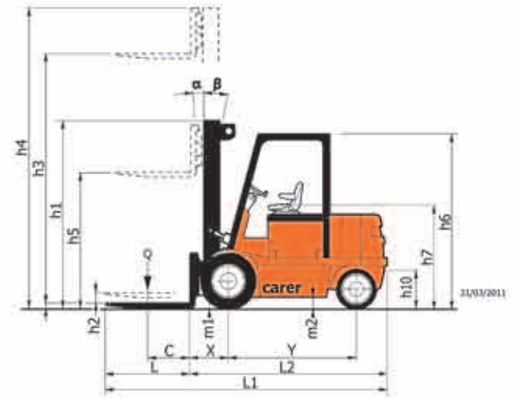

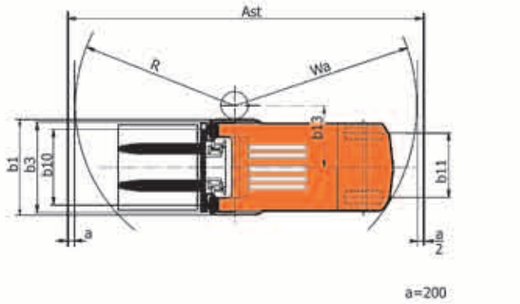

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