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carer

the power of clean energy

R30N
R35C
R40C

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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.

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.

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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

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.

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 c arried 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.

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.

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ELECTRIC FORKLIFTS

					R30N	R35C	R40C
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.

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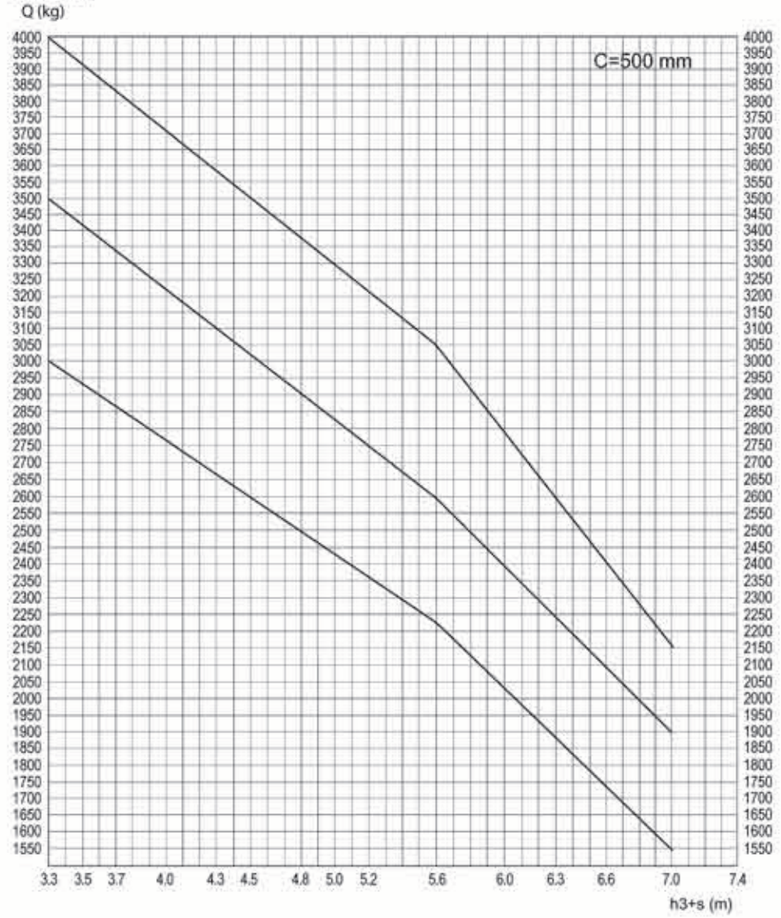

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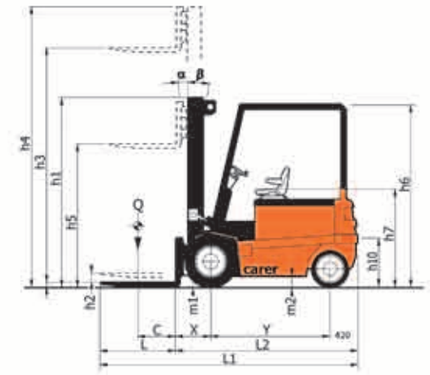

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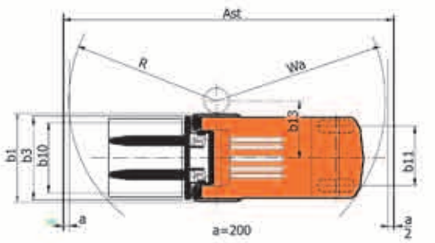

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