carer
Electric Forklift Trucks

F SERIES

Capacity 6,000-9,000 kg
Centre of gravity 600 mm
Voltage 96 V
Super-steering axle
Very high performances for heavy duty applications
Travel speed: 20 km/h
Lifting speed: 0.45 m/s



F 60 HD²
F 65 HD²
F 70 HD²
F 80 HD²
F 90 HD²

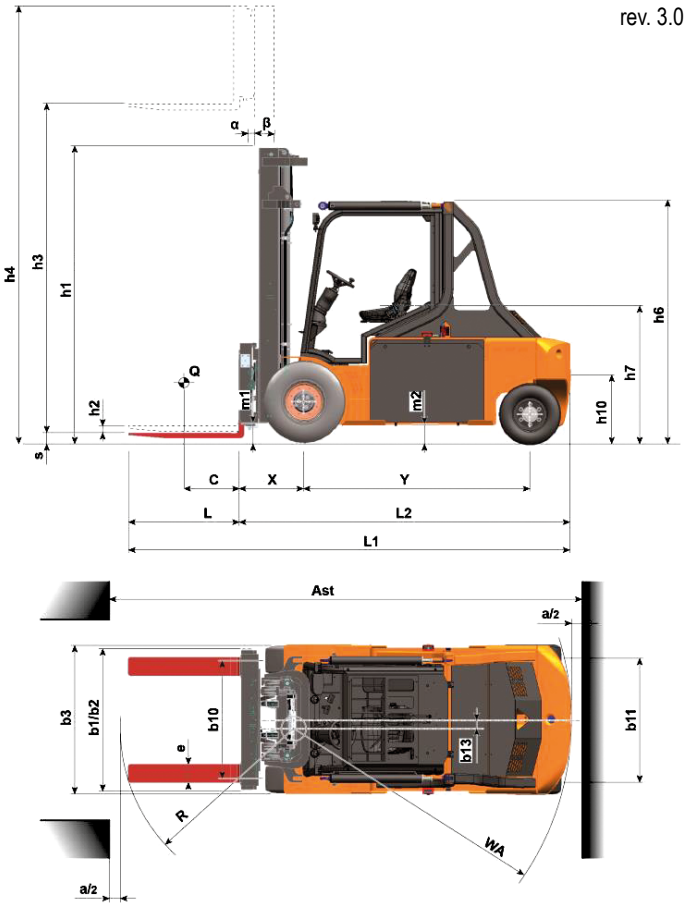
rev. 3.0

MAIN FEATURES

- Capacity: 6,000-9,000 kg
- Centre of gravity: 600 mm
- Voltage: 96 V
- Tires: C - SE - SEG
- Motors: AC
- Brakes: electric
- Travel speed: 20 km/h
- Lifting speed: 0.45 m/s
- Battery 96 V – Maximum capacity 1475 Ah
- Advanced multifunction digital display (AMD)
- Rear view camera
- High positioned tilt cylinders
- Super steering axle

AVAILABLE CONTAINER VERSION KF 60-65-70-80-90 HD²

Total height = 2,235 mm



THE BENEFITS OF CHOOSING CARER

Designed to support long working cycles and high performance, the F 60-90 HD² (heavy duty) can be considered as the latest expression of the principles and the technology developed by Carer over the years.

Better energy efficiency of the new front axle group developed by Carer that consist in two twin traction motors and two reduction gears, generates an energy saving over 25% of the VDI cycle. With a sharp-steering axle, the remarkable consistency of the truck and the maximum comfort of the driver's seat, the F 60-90 HD² is the ideal solution for applications in tough industries and in confined spaces.

Specifications

Equipped with two drive motors 15 kW with high RPM and high Torque and a lifting motor 45 kW, this truck is able to reach a speed of 20 km/h and 0.45 m/s lifting speed. Large acceleration is unbeatable by any ICE and electric forklift truck.

Battery replacement, easy and rapid extraction side ways with minimum of time and effort to change. The specific design gives an extreme compact, sharp-axle steering for extreme manoeuvrability and high performance engines.

An advanced multi-functional display, allows to adjust the settings of the truck depending on the applications and wishes of the operators to increase the benefits in terms of high performance or long autonomies.

The rear camera integrated in the LCD screen allows to analyse all the forklift functions.





F 60HD² F 65HD² F 70HD² F 80HD² F 90HD²

carer Electric Forklift Trucks

IDENTIFICATION	1.1	Manufacturer			C.A.R.E.R. Srl			
	1.2	Manufacturer's type designation			F 60 HD²	F 65 HD²	F 70 HD²	F 80 HD²	F 90 HD²
	1.3	Drive			electric	electric	electric	electric	electric
	1.4	Operator type			seat	seat	seat	seat	seat
	1.5	Load capacity/rated load	Q	(t)	6	6,5	7	8	9
	1.6	Load centre distance	C	(mm)	600	600	600	600	600
	1.8	Load distance	X	(mm)	650 (1) (2)	650 (1) (2)	650 (1) (2)	700 (1) (2)	720 (1) (2)
	1.9	Wheelbase	Y	(mm)	2250	2250	2250	2550	2550
WEIGHTS	2.1	Weight		(kg)	10260	10430	10770	12095	13425
	2.2	Axle loading, laden front / rear		(kg)	14523 / 1737	15316 / 1614	16124 / 1646	18670 / 1425	20780 / 1645
	2.3	Axle loading, unladen front / rear		(kg)	5190 / 5070	5200 / 5230	5240 / 5530	6590 / 5505	7120 / 6305
WHEELS	3.1	Tyres type			C-SE-SEG	C-SE-SEG	C-SE-SEG	C-SE-SEG	SEG
	3.2	Tyre size, front			840x356x559 355/65-15 8.25-15	840x356x559 355/65-15 8.25-15	840x356x559 355/50-20 8.25-15	840/356x559 355/50-20 8.25-15	8.25-15
	3.3	Tyre size, rear			22x9-16 23x10-12	22x9-16 23x10-12	22x9-16 23x10-12	22x9-16 23x10-12	23x10-12
	3.5	Wheels, number front rear (x = driven wheels)			2X / 2	2X / 2	2X / 2	2X / 2	4X / 2
	3.6	Track width, front	b10	(mm)	1305 1375 1380	1035 1375 1380	1305 1350 1380	1305 1350 1380	1380
	3.7	Track width, rear	b11	(mm)	1220 1225	1220 1225	1220 1225	1220 1225	1225
DIMENSIONS	4.1	Tilt of mast / fork carriage forward / backward	α/β	(°)	5.5 / 6 (2)	5.5 / 6 (2)	5.5 / 6 (2)	5.5 / 6 (2)	5.5 / 6 (2)
	4.2	Closed mast height	h1	(mm)	2680	2680	2680	2792	2900
	4.3	Free lift	h2	(mm)	100	100	100	0	0
	4.4	Lift (standard mast)	h3	(mm)	3400	3400	3400	3400	3400
	4.5	Height, mast extended	h4	(mm)	4370	4370	4370	4530	4800
	4.7	Height of overhead guard	h6	(mm)	2420	2420	2420	2420	2420
	4.8	Seat height	h7	(mm)	1330	1330	1330	1330	1330
	4.12	Coupling height	h10	(mm)	465	465	465	465	465
	4.19	Overall length	L1	(mm)	4500	4500	4500	4840	4880
	4.20	Length to face of forks	L2	(mm)	3300	3300	3300	3640	3680
	4.21	Overall width	b1/b2	(mm)	1660 1660 1830	1660 1660 1830	1660 1660 1830	1660 1660 1830	1830
	4.22	Fork dimensions	ExSxL	(mm)	150x60x1200	150x60x1200	150x60x1200	200x60x1200	200x60x1200
	4.23	Fork carriage iso 2328/30, FEM/A,B			4A	4A	4A	4A	5A
	4.24	Fork-carriage width	b3	(mm)	1300	1300	1300	1300	1500
	4.31	Ground clearance, laden, below mast	m1	(mm)	180	180	180	180	180
	4.32	Ground clearance, centre of wheelbase	m2	(mm)	165	165	165	165	165
	4.33	Aisle width for pallets 1000x1200 crossways	Ast	(mm)	4610	4610	4610	4955	4975
	4.34	Aisle width for pallets 800x1200 lengthways	Ast	(mm)	4745	4745	4745	5095	5115
	4.35	Turning radius	Wa	(mm)	2650	2650	2650	2950	2950
	4.36	Internal turning radius	b13	(mm)	0	0	0	0	0
PERFORMANCE	5.1	Travel speed, laden / unladen		(km/h)	20 / 20	20 / 20	20 / 20	20 / 20	20 / 20
	5.2	Lift speed, laden / unladen		(m/s)	0.39 / 0.45	0.37 / 0.45	0.35 / 0.45	0.31 / 0.45	0.28 / 0.4
	5.3	Lowering speed, laden / unladen		(m/s)	0.5 / 0.4	0.5 / 0.4	0.5 / 0.4	0.5 / 0.4	0.47 / 0.39
	5.5	Drawbar pull, laden / unladen (S2 60')		(N)	6900 / 7500	6800 / 7400	6700 / 7400	6400 / 7200	6200 / 7000
	5.6	Max. drawbar pull, laden / unladen (S2 5')		(N)	23800 / 24400	23700 / 24300	23600 / 24300	23300 / 24400	23000 / 23900
	5.7	Gradeability, laden / unladen (S2 30')		(%)	8.2 / 13.5	7.9 / 12.8	7.4 / 12.8	6.4 / 11.1	5.6 / 10
	5.8	Max. gradeability, laden / unladen (S2 5')		(%)	14.7 / 23.7	14.2 / 22.5	13.4 / 22.5	11.6 / 19.6	10.3 / 17.8
	5.9	Acceleration time, laden / unladen (10 m)		(s)	6.6 / 5,3	6.6 / 5.3	7 / 5.5	7.4 / 5.6	7.8 / 5.8
	5.10	Service brake			electric	electric	electric	electric	electric
MOTOR / BATT.	6.1	Drive motor rating (S2 60')		(kW)	2x15	2x15	2x15	2x15	2x15
	6.2	Lift motor rating (S3 20%)		(kW)	45	45	45	45	45
	6.4	Battery voltage	U	(V)	96	96	96	96	96
	6.4.1	Rated capacity	K5	(Ah)	980 / 1085	980 / 1085	980 / 1085	1260 / 1395 / 1475 (TENSOR)	1260 / 1395 / 1475 (TENSOR)
	6.5	Battery weight minimum/maximum		(kg)	3050 / 3230	3050 / 3230	3050 / 3230	4050 / 4200	4050 / 4200
OTHERS	8.1	Type of drive control			inverter	inverter	inverter	inverter	inverter
	8.2	Operating pressure for attachments		(bar)	200	200	200	200	200
	8.4	Sound level at the driver's ear		(dBA)	-	-	-	-	-

VDI 2198

Rev1 23/03/2016

(1) With side-shifter integrated in the mast. (2) Depending on kind of mast.

Wheels tyre legend: SE super elastic - SEGEM super elastic twins - C cushion - L pneumatic - VLK vulkolan.

The performance data refer to a forklift truck in perfect working condition, with battery weight corresponding to the values given in 6.5.

In accordance with VDI Guideline 2198 this specification sheet provides details of the standard truck only. Non-standard tyres, different masts, optional equipment, etc. may result in different values.

The C.A.R.E.R. products and specifications are subject to change without notice.

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carer
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