





The **B series** is the ultimate expression of technological research developed by the Carer technical department. It's an eco-friendly, noiseless forklift truck: a good alternative to traditional IC forklifts, contributing to reduce the impact of your work on global warming.

Nominal capacity up to 3400 mm lifting height (side shifter included).

# MAIN FFATURES

- Ideal for outdoor use
  - front & rear superelastic tires same size
  - excellent ground clearance
- Excellent performances
  - travel speed up to 18 km/h and lifting speed up to 0.40-0.50 m/sec
- Two powerful AC drive motors motors integrated in the front axle to generate acceleration, torque and fast travel speed
- High autonomy guaranteed by efficiency and battery up to 96 V - 1656 Ah
- Advanced Multifunctional Display (AMD)
- Comfortable seat with high visibility sensorized belt
- Automatic parking brake
- Tilting cylinders on the roof
- Proportional reduction of travel speed when cornering
- Lateral battery extraction system
- Rearview camera

AVAILABLE CONTAINER VERSION KB 60-70-80-90H KB 60-70-80-80/900-90-100HD



#### **Electronics**

All truck functions are managed by sophisticated double microprocessor-controlled electronics and regenerative braking. High-efficiency AC traction and pump motors.

### **Brakes and Energy Regeneration**

The oil bath brake system is extremely effective and long lasting. Energy regeneration can be carried out by braking, releasing the accelerator, reversing the direction and by positive dynamic braking. The electric

brake doesn't depend on the friction between the tires and the ground and ensures a greater contact of the truck to the ground.

#### Motors

Electric motors are built and tested by CARER with the most advanced technologies. The AC high efficiency motors perform at high torque, guaranteeing speed, high performances and maneuverability. The highly advanced

manufacturing technique makes them reliable and durable even under stress.

Two 15 kW traction motors and one 52 kW pump motor work at up to 5400 rpm, providing high torque and high reduction gear. The motors are IP54 protected against access of dust and water and they allow to optimize

power consumption and to guarantee extremely quiet operation. The new front axle consists of a unique block of two independent units: right and left gear boxes and motors.



### **Battery**

96 V battery, with capacities up to 1656 Ah. The battery is divided two side-by-side boxes and it allows to have easy, safe and fast battery replacement.

#### Masts

The masts are designed and developed in order to guarantee the highest visibility. They are specifically designed

with a superior welded profile, 6 bearings and an increased wheelbase to suit all applications. The profiles are cold treated to provide optimum resistance to bending and twisting.

The tilting cylinders mounted on the roof structure ensure

load stability, high residual capacity and lower torsion to the mast.







#### **Rearview Camera**

As standard the machine presents an integrated rearview camera to increase the driver's comfort and safety driving backward.

### **Operator Compartment**

The overhead guard is specifically designed and manufactured using a narrow pillar profile to provide high visibility in all directions.

The forklift is equipped with separate, sealed cabs mounted on silent blocks to provide maximum comfort for the driver, offering a perfect isolation in terms of noiselessness and vibrations. Moreover, the hydraulic pump and front axle gears with helical mechanism ensure maximum silence in all conditions of use.

The operator compartment is spacious and with a generous foot plate. The steering wheel is inclinable and it is in height adjustable. The seat is comfortable equipped with armrest, backrest and high visibility sensorized belt.

## **Advanced Multifunctional Digital Display**

Via an LCD 5.7" advanced multifunctional display, it is possible 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 and comfort. It allows to monitor vehicle speed, driving direction, battery state of charge, drive instantaneous consumption, battery voltage, working hours. The warning lights show: parking brake, brake failure, no activation of the micro-seat, headlights and direction indicators.



### Low seat position

B 60 H B 70 H B 80 H B 90 H B 60 HD B 70 HD B 80/900 HD B 90 HD B 100 HD

The low seat position of 1330 mm is ideal for drivers that need easy access into the cabin and that often enter and exit from the forklift
Only one step is required.
When opening the door 180 degrees also easy out is comfortable.

## Doors 180 degrees

The large glass door can be used with pressure cilinder or as option with 180 degree hinges to be able to drive with the doors open.

The door can be locked to the chassis.



## Large step

One large step with grid enables a safe, nonslip access in and out of the cabin.



#### Rear view camera

All trucks are standard equipped with a rear view camera with directional striping to encrease safety.











#### Wheels 15 inch

With the use of 15 inch, front and rear additional comfort is created. Also tyre wear is reduced when using larger wheels.



### Battery exchange

The 96 volt battery is splitted in two trays side by side that can be easily swapped using a forklift or a pallet truck with frame.

#### Lead acid versus lithiumion

Both battery versions can be used depending on running hours, work cycle and electrical supply



#### Tilt cilinders

By designing a chassis with tiltcilinders at the top of the overheadguard a more stable mast-truck combination is build, reducing torsion in the mast and improving residual capacity.

### **Ergonomics**

The optimal driving position offers excellent visibility in all directions.

Access to the machines is facilitated by wide non-slip steps and a big handle access. To guarantee the maximum comfort to the driver, the machine has an ergonomic seat. The steering wheel has a tilting steering column and can also be adjusted depth-wise.

The armrest is integrated with mini-levers and command buttons. The BH series is available with mechanical levers. The pedal system can be configured on the specific customer needs: double pedals, directional control at steering wheel or armrest, central brake pedals.

## Efficiency

High energy efficiency is ensured by the use of the best market technologies.

The forklift is equipped with two high-speed traction motors with high-reduction gear boxes to provide high productivity.

The electrical system layout has been designed to provide the maximum efficiency and reduce Joule-effect losses. The hydraulic system has been developed using larger sections to decrease the power losses and supplying a significant efficiency increase. The electric valve bank is managed directly by a stepper motor in each section to reduce energy consumption in all the functions and improve the responsiveness

## Optional

A wide range of options allows to tailor the truck to the various operational needs: fingertip, joystick, heating, air conditioning, radio with remote control, electronic key access, weight indicator system, front camera and many other accessories enhance the comfort of the driver and help managing information of the vehicle operation from remote.

















	1.1	Manufacturer			C.A.R.E.R. Srl						
	1.2	Manufacturer's type designation			B60H	B60H B70H B8		В90Н			
FEATURES	1.3	Drive			electric	electric	electric	electric			
	1.4	Operator type			seat	seat	seat	seat			
	1.5	Load capacity/rated load	Q	(t)	6	7	8	9			
ш	1.6	Load centre distance	С	(mm)	600	600	600	600			
	1.8	Load distance	Х	(mm)	660 (1) (2)	660 (1) (2)	660 (1) (2)	670 (1) (2)			
	1.9	Wheelbase	Υ	(mm)	2350	2350	2480	2480			
S	2.1	Weight		(kg)	10600	11360	12160	13110			
WEIGHTS	2.2	Axle loading, laden front / rear		(kg)	15100 / 1500	16606 / 1754	18633 / 1527	20376 / 1734			
×	2.3	Axle loading, unladen front / rear		(kg)	5880 / 4720	5850 / 5510	6570 / 5590	6770 / 6340			
ELS	3.1	Tyres type			SE-SEG	SE-SEG	SE-SEG	SE-SEG			
	3.2	Tyre size, front			355/65-15 8.25-15	355/65-15 8.25-15	355/50-20 8.25-15	355/50-20 8.25-15			
	3.3	Tyre size, rear			8.25-15	8.25-15	8.25-15	8.25-15			
WHEELS	3.5	Wheels, number front rear (x = driven wheels)			2X/2	2X/2	2X/2	2X/2			
	3.6	Track width, front	b10	(mm)	1450 1560	1450 1560	1450 1560	1450 1560			
	3.7	Track width, rear	b11	(mm)	1450	1450	1450	1450			
	4.1	Tilt of mast / fork carriage forward / backward	α/β	(°)	6/8(2)	6/8(2)	6/8(2)	6/8(2)			
	4.2	Closed mast height	h1	(mm)	2680	2680	2800	2800			
	4.3	Free lift	h2	(mm)	100	100	100	100			
	4.4	Lift (standard mast)	h3	(mm)	3400	3400	3400	3400			
	4.5	Height, mast extended	h4	(mm)	4520	4520	4640	4640			
	4.7	Height of overhead guard	h6	(mm)	2550	2550	2550	2550			
	4.8	Seat height	h7	(mm)	1330	1330	1330	1330			
	4.12	Coupling height	h10	(mm)	800	800	800	800			
S	4.19	Overall length	L1	(mm)	4630	4630	4760	4720			
SION	4.20	Length to face of forks	L2	(mm)	3430	3430	3560	3520			
DIMENSIONS	4.21	Overall width	b1/b2	(mm)	1750 2000	1750 2000	1750 2000	1750 2000			
	4.22	Fork dimensions	exsxL	(mm)	150x60x1200	150x60x1200	150x60x1200	180x60x1200			
ì	4.23	Fork carriage iso 2328/30, FEM/A,B			4A	4A	4A	5A			
	4.24	Fork-carriage width	b3	(mm)	1600	1600	1600	1600			
	4.31	Ground clearance, laden, below mast	m1	(mm)	180	180	180	180			
	4.32	Ground clearance, centre of wheelbase	m2	(mm)	150	150	150	150			
	4.33	Aisle width for pallets 1000x1200 crossways	Ast	(mm)	5010	5010	5160	5180			
	4.34	Aisle width for pallets 800x1200 lengthways	Ast	(mm)	5210	5210	5360	5380			
	4.35	Turning radius	Wa	(mm)	3150	3150	3300	3300			
		Internal turning radius	b13	(mm)	1100	1100	1140	1140			
	5.1	Travel speed, laden / unladen		(km/h)	15 / 15	14,5 / 15	14 / 15	14 / 15			
	5.2	Lift speed, laden / unladen		(m/s)	0,28 / 0,45	0,25 / 0,45	0,25 / 0,45	0,29 / 0,35			
9	5.3	Lowering speed, laden / unladen	+	(m/s)	0,45 / 0,4	0,45 / 0,4	0,45 / 0,4	0,35 / 0,29			
~	5.5	Drawbar pull, laden / unladen (S2 60')	+	(N)	9000 / 10000	9000 / 10000	8500 / 9600	8500 / 9400			
FORI	5.6	Max. drawbar pull, laden / unladen (S2 5')	+	(N)	28300 / 29200	28300 / 29200	27700 / 28800	27700 / 28800			
PER	5.7	Gradeability, laden / unladen (S2 30')	1	(%)	9,5 / 16,5	9,5 / 16,5	7,5 / 13,3	6,7 / 12,2			
	5.8	Max. gradeability, laden / unladen (S2 5')	1	(%)	17 / 28	16,1 / 27,7	12,6 / 22,3	11,4 / 20,5			
	5.9	Acceleration time, laden / unladen (10 m)		(s)	4,4 / 4,2	4,9 / 4,5	4,9 / 4,5	5,2 / 4,6			
	5.10	Service brake: mech./hydr./electr.	1	(1.14.0)	electric	electric	electric	electric			
Ë	6.1	Drive motor rating (S2 60')	1	(kW)	2x15	2x15	2x15	2x15			
OR / B	6.2	Lift motor rating (S3 20%)	1.	(kW)	30	30	30	52			
	6.4	Battery voltage	U	(V)	96	96	96	96			
	6.4.1	Rated capacity	K5	(Ah)	1125 / 1242	1125 / 1242	1320 / 1380	1320 / 1380			
	6.5	Battery weight minimum/maximum	-	(kg)	3000 / 3200	3000 / 3200	3300 / 3650	3300 / 3650			
ERS	8.1	Type of drive control	-	(1 )	inverter	inverter	inverter	inverter			
_	8.2	Operating pressure for attachments		(bar)	200	200	200	200			
	8.4	Sound level at the driver's ear		(dBA)	72	72	72	72 Rev2 12/09/2024			

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(1) With positioner and TW sideshift integrated in the mast

(2)Depending on kind of mast

Wheels tyre legend: SE super elastic - SEG super elastic twins - C cushion - PN pneumatic - VLK vulkolan: for tires NO MARKING - OIL RESISTANT, please contact Carer

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

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.



	1.1	Manufacturer C.A.R.E.R. Srl								
	1.2	Manufacturer's type designation			B60HD	B70HD	B80HD	B80/900HD	B90HD	B100HD
	1.3	Drive			electric	electric	electric	electric	electric	electric
RES	1.4	Operator type			seat	seat	seat	seat	seat	seat
FEATURES	1.5	Load capacity/rated load	Q	(t)	6	7	8	8	9	10
Ή	1.6	Load center distance	c	(mm)	600	600	600	900	600	600
	1.8	Load distance	X	(mm)	660 (1) (2)	660 (1) (2)	660 (1) (2)	680 (1) (2)	670 (1) (2)	700 (1) (2)
	1.9	Wheelbase	Υ	(mm)	2350	2350	2480	2692	2480	2692
S	2.1	Weight		(kg)	10600	11360	12160	14510	13110	14560
WEIGHTS	2.2	Axle loading, laden front / rear		(kg)	15100 / 1500	16606 / 1754	18633 / 1527	20710 / 1800	20376 / 1734	22741 / 1819
WEI	2.3	Axle loading, unladen front / rear		(kg)	5880 / 4720	5850 / 5510	6570 / 5590	8010 / 6500	6770 / 6340	7910 / 6650
	3.1	Tires type		( 3)	SE-SEG	SE-SEG	SE-SEG	SEG	SE-SEG	SEG
	3.2	Tire size, front				355/65-15 8.25-15		300/15	355/50-20 8.25-15	300/15
WHEELS	3.3	Tire size, rear			8.25-15	8.25-15	8.25-15	8.25-15	8.25-15	8.25-15
	3.5	Wheels, number front rear (x = driven wheels)			2X/2	2X/2	2X/2	4X/2	2X/2	4X/2
	3.6	Track width, front	b10	(mm)	1450 1560	1450 1560	1450 1560	1660	1450 1560	1660
	3.7	Track width, rear	b11	(mm)	1450	1450	1450	1450	1450	1450
	4.1	Tilt of mast / fork carriage forward / backward	α/β	(°)	6/8(2)	6/8(2)	6/8(2)	6/8(2)	6/8(2)	6/8(2)
	4.2	Closed mast height	h1	(mm)	2680	2680	2800	2892	2800	2892
	4.3	Free lift	h2	(mm)	100	100	100	100	100	100
	4.4	Lift (standard mast)	h3	(mm)	3400	3400	3400	3400	3400	3400
	4.5	Height, mast extended	h4	(mm)	4520	4520	4640	4720	4640	4770
	4.7	Height of overhead guard	h6	(mm)	2550	2550	2550	2550	2550	2550
	4.8	Seat height	h7	(mm)	1330	1330	1330	1330	1330	1330
	4.12	Coupling height	h10	(mm)	800	800	800	800	800	800
S	4.19	Overall length	L1	(mm)	4630	4630	4760	5600	4720	5020
SION	4.20	Length to face of forks	L2	(mm)	3430	3430	3560	3800	3520	3820
DIMENSIONS	4.21	Overall width	b1/b2	(mm)	1750 2000	1750 2000	1750 2000	2200	1750 2000	2200
	4.22	Fork dimensions	exsxL	(mm)	150x60x1200	150x60x1200	150x60x1200	180x70x1800	180x60x1200	180x60x1200
	4.23	Fork carriage iso 2328/30, FEM/A,B			4A	4A	4A	4A	5A	5A
	4.24	Fork-carriage width	b3	(mm)	1600	1600	1600	2000	1600	2000
	4.31	Ground clearance, laden, below mast	m1	(mm)	180	180	180	180	180	180
	4.32	Ground clearance, center of wheelbase	m2	(mm)	150	150	150	150	150	150
	4.33	Aisle width for pallets 1000x1200 crossways	Ast	(mm)	5010	5010	5160	5380	5180	5460
	4.34	Aisle width for pallets 800x1200 lengthways	Ast	(mm)	5210	5210	5360	5580	5380	5615
	4.35	Turning radius	Wa	(mm)	3150	3150	3300	3500	3300	3500
	4.36	Internal turning radius	b13	(mm)	1100	1100	1140	1255	1140	1255
	5.1	Travel speed, laden / unladen		(km/h)		18 / 18	18 / 18	17 / 18	17 / 18	17 / 18
	5.2	Lift speed, laden / unladen		(m/s)	0,4 / 0,5	0,4 / 0,5	0,4 / 0,5	0,36 / 0,5	0,37 / 0,4	0,36 / 0,4
щ	5.3	Lowering speed, laden / unladen		(m/s)	0,5 / 0,4	0,5 / 0,4	0,5 / 0,4	0,5 / 0,4	0,5 / 0,37	0,5 / 0,4
PERFORMANCE	5.5	Drawbar pull, laden / unladen (S2 60')		(N)	9000 / 10000	9000 / 10000	8500 / 9600	8000 / 9100	8500 / 9400	8000 / 9100
-ORI	5.6	Max. drawbar pull, laden / unladen (S2 5')		(N)	28300 / 29200	28300 / 29200	27700 / 28800	27200 / 28200	27700 / 28800	27200 / 28200
PERF	5.7	Gradeability, laden / unladen (S2 30')		(%)	9,5 / 16,5	9,5 / 16,5	7,5 / 13,3	6,5 / 11	6,7 / 12,2	6 / 11
Ĭ -	5.8	Max. gradeability, laden / unladen (S2 5')		(%)	17 / 28	16,1 / 27,7	12,6 / 22,3	11,5 / 20	11,4 / 20,5	11 / 20
	5.9	Acceleration time, laden / unladen (10 m)		(s)	4,4 / 4,2	4,9 / 4,5	4,9 / 4,5	5 / 4,4	5,2 / 4,6	5 / 4,4
Щ	5.10	Service brake: mech./hydr./electr.			electric	electric	electric	electric	electric	electric
ı.	6.1	Drive motor rating (S2 60')		(kW)	2x15	2x15	2x15	2x15	2x15	2x15
ш	6.2	Lift motor rating (S3 20%)	1	(kW)	52	52	52	52	52	52
OR/	6.4	Battery voltage	U	(V)	96	96	96	96	96	96
MOT		Rated capacity	K5	(Ah)	1125 / 1242	1125 / 1242	1320 / 1380	1500 / 1656	1320 / 1380	1500 / 1656
$\vdash$		Battery weight minimum/maximum		(kg)	3000 / 3200	3000 / 3200	3300 / 3650	4000 / 4300	3300 / 3650	4000 / 4300
RS	8.1	Type of drive control			inverter	inverter	inverter	inverter	inverter	inverter
OTHERS	8.2	Operating pressure for attachments		(bar)	200	200	200	200	200	200
٦	8.4	Sound level at the driver's ear		(dBA)	72	72	72	72	72	72

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(2)Depending on kind of mast

Wheels tire legend: SE super elastic - SEG super elastic twins - C cushion - PN pneumatic - VLK vulkolan: for tires NO MARKING - OIL RESISTANT, please contact Carer

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

This specification sheet provides details of the standard truck only. Non-standard tires, different masts, optional equipment, etc. may result in different values.



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