

B

SERIES

Low seat
position

Comfort
and performance
comparable
with ICE trucks



- | | |
|--------------------|-----------------|
| B 60 HD | B 60 H |
| B 70 HD | B 70 H |
| B 80 HD | B 80 H |
| B 80/900 HD | B 90 H |
| B 90 HD | B 100 HD |
| B 100 HD | B 120 HD |
| B 120 HD | |



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 3,400 mm lifting height (side shifter included).

MAIN FEATURES

- **Ideal for outdoor use**
 - front & rear superelastic tires same size
- **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
- Rearview camera

CONTAINER VERSION

KB 60-70-80-90 H

KB 60-70-80-80/900-90-100-120 HD

Overhead guard (H6) 2,230 mm



B 60 H
B 70 H
B 80 H
B 90 H

B 60 HD
B 70 HD
B 80 HD
B 80/900 HD
B 90 HD
B 100 HD
B 120 HD

Electronics

All truck functions are managed by sophisticated double microprocessor-controlled electronics and regenerative braking.

High-efficiency and low maintenance AC traction and pump motors.

Brakes and energy regeneration

The parking and emergency braking is oil-bath and intervenes automatically.

Dynamic braking is of the electric type and is done by the two traction motors in countercurrent.

Braking and energy regeneration can be performed by braking, releasing the accelerator, reversing direction and by positive dynamic braking.

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 manoeuvrability. 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 5,400 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 two independent units: right and left gear boxes and motors.



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.



Carer



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B 60 H
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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 Multi-functional 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

The low seat position (1,330 mm) is ideal for drivers that need easy access into the cabin and that often enter and exit from the forklift. When opening the door 180 degrees also easy out is comfortable.

The large glass doors is equipped with 180 degree hinges to be able to drive with wide open doors. The doors can be locked to the chassis.

Ergonomics

Separate Cab

To guarantee the maximum comfort to the driver, the forklift is equipped with a separate, sealed cabs mounted on silent blocks to provide maximum comfort for the driver offering a perfect isolation in terms of noiselessness and vibrations.

Comfortable entrance

Access to the machines is facilitated by one wide nonslip step and a big handle access.

Steering wheel

The steering wheel has a tilting steering column and can also be adjusted depth-wise.

Control levers

The BH series is available with mechanical levers. The BHD armrest is integrated with mini-levers and command buttons.

Pedal system

The pedal system can be configured on the specific customer needs: double pedals, directional control at steering wheel or armrest, central brake pedals.

High visibility

The optimal driving position offers excellent visibility in all directions.



B 60 H **B 60 HD**
B 70 H **B 70 HD**
B 80 H **B 80 HD**
B 90 H **B 80/900 HD**
 B 90 HD
 B 100 HD
 B 120 HD

Rearview camera

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



High positioned tilt cylinders

By designing a chassis with tilt cylinders at the top of the overhead guard a more stable mast-truck combination is build, reducing torsion of the mast and improving residual capacity.



Battery

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

Easy and fast replacement

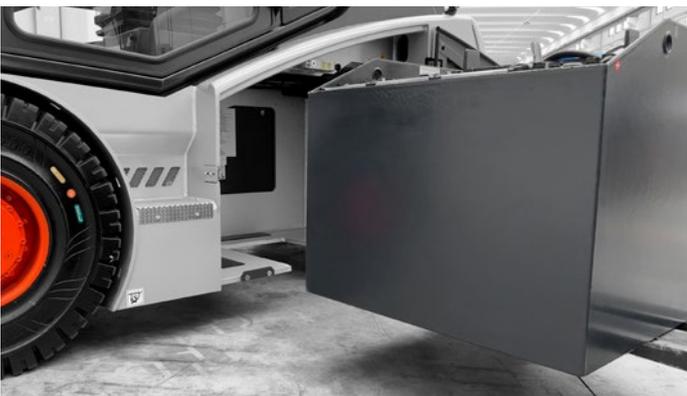
The 96 volt battery can be easily swapped by a single operator using a forklift or a pallet truck with frame.

Lead Acid versus Lithium-Ion

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

96 V technology benefits

- Top performance
- High system efficiency
- High battery capacity
- Low overheating
- Long life and durability of battery and electrical components



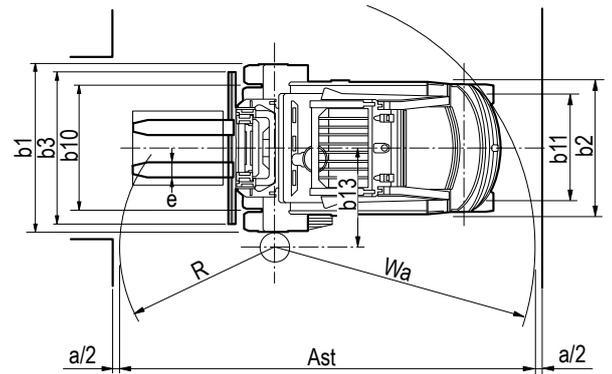
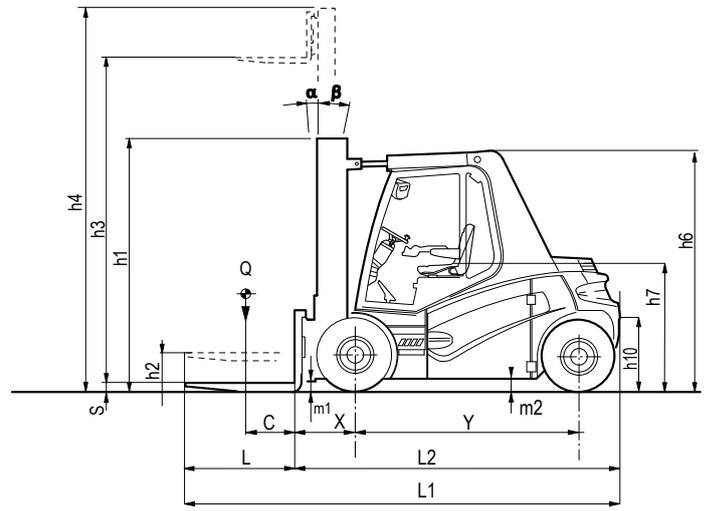
- B 60 H** **B 60 HD**
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- B 90 H** **B 80/900 HD**
- B 90 HD**
- B 100 HD**
- B 120 HD**



Four 15 inch wheels

With the use of 15 inch, front and rear additional comfort is created.

Also tyre wear is reduced when using big wheels.



a=200

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.

On the HD models 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.



		C.A.R.E.R. Srl					
FEATURES	1.1	Manufacturer					
	1.2	Manufacturer's type designation		B60H	B70H	B80H	B90H
	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
	1.6	Load centre distance	C (mm)	600	600	600	600
	1.8	Load distance	X (mm)	660 (1) (2)	660 (1) (2)	660 (1) (2)	660 (1) (2)
	1.9	Wheelbase	Y (mm)	2350	2350	2480	2480
	WEIGHTS	2.1	Weight	(kg)	10600	11360	12160
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	6800 / 6310
WHEELS	3.1	Tyres type		SE-SEG	SE-SEG	SE-SEG	SEG
	3.2	Tyre size, front		355/65-15 8.25-15	355/65-15 8.25-15	355/50-20 8.25-15	8.25-15
	3.3	Tyre size, rear		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
	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
	DIMENSIONS	4.1	Tilt of mast / fork carriage forward / backward	α/β (°)	6/8(2)	6/8(2)	6/8(2)
4.2		Closed mast height	h1 (mm)	2700	2700	2800	2915
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)	4540	4540	4660	4720
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
4.19		Overall length	L1 (mm)	4630	4630	4730	4730
4.20		Length to face of forks	L2 (mm)	3430	3430	3530	3530
4.21		Overall width	b1/b2 (mm)	1750 2000	1750 2000	1750 2000	2000
4.22		Fork dimensions	exsXL (mm)	150x60x1200	150x60x1200	150x60x1200	180x60x1200
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	
4.36	Internal turning radius	b13 (mm)	1100	1100	1140	1140	
PERFORMANCE	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
	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
	5.6	Max. drawbar pull, laden / unladen (S2 5')	(N)	28300 / 29200	28300 / 29200	27700 / 28800	27700 / 28800
	5.7	Gradeability, laden / unladen (S2 30')	(%)	9,5 / 16,5	9,5 / 16,5	7,5 / 13,3	6,7 / 12,2
	5.8	Max. gradeability, laden / unladen (S2 5')	(%)	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.		electric	electric	electric	electric
	MOTOR / BATT.	6.1	Drive motor rating (S2 60')	(kW)	2x15	2x15	2x15
6.2		Lift motor rating (S3 20%)	(kW)	30	30	30	52
6.4		Battery voltage	U (V)	96	96	96	96
6.4.1		Rated capacity	K5 (Ah)	1125 / 1104	1125 / 1104	1320 / 1380	1320 / 1380
6.5		Battery weight minimum/maximum	(kg)	3000 / 3200	3000 / 3200	3300 / 3650	3300 / 3650
OTHERS	8.1	Type of drive control		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

(1) With side-shifter 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 tyres 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.

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		C.A.R.E.R. Srl								
FEATURES	1.1	Manufacturer								
	1.2	Manufacturer's type designation		B60HD	B70HD	B80HD	B80/900HD	B90HD	B100HD	B120HD
	1.3	Drive		electric	electric	electric	electric	electric	electric	electric
	1.4	Operator type		seat	seat	seat	seat	seat	seat	seat
	1.5	Load capacity/rated load	Q (t)	6	7	8	8	9	10	12
	1.6	Load centre distance	C (mm)	600	600	600	900	600	600	600
	1.8	Load distance	X (mm)	660 (1) (2)	660 (1) (2)	660 (1) (2)	670 (1) (2)	660 (1) (2)	700 (1) (2)	800 (1) (2)
	1.9	Wheelbase	Y (mm)	2350	2350	2480	2692	2480	2692	2845
	WEIGHTS	2.1	Weight	(kg)	10600	11360	12160	14510	13110	14560
2.2		Axle loading, laden front / rear	(kg)	15100 / 1500	16606 / 1754	18633 / 1527	20710 / 1800	20376 / 1734	22741 / 1819	26304 / 1991
2.3		Axle loading, unladen front / rear	(kg)	5880 / 4720	5850 / 5510	6570 / 5590	8040 / 6470	6800 / 6310	7910 / 6650	8400 / 7895
WHEELS	3.1	Tyres type		SE-SEG	SE-SEG	SE-SEG	SEG	SEG	SEG	SEG-PNG
	3.2	Tyre size, front		355/65-15 8.25-15	355/65-15 8.25-15	355/50-20 8.25-15	300/15	8.25-15	300/15	300-15 315/70-15
	3.3	Tyre size, rear		8.25-15	8.25-15	8.25-15	8.25-15	8.25-15	8.25-15	300-15 8.25-15
	3.5	Wheels, number front rear (x = driven wheels)		2X/2	2X/2	2X/2	4X/2	4X/2	4X/2	4X/2
	3.6	Track width, front	b10 (mm)	1450 1560	1450 1560	1450 1560	1660	1450 1560	1660	1670 1800
	3.7	Track width, rear	b11 (mm)	1450	1450	1450	1450	1450	1450	1435 1410
DIMENSIONS	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)	6/8(2)
	4.2	Closed mast height	h1 (mm)	2700	2700	2800	2915	2915	2892	2915
	4.3	Free lift	h2 (mm)	100	100	100	100	100	100	100
	4.4	Lift (standard mast)	h3 (mm)	3400	3400	3400	3400	3400	3400	3400
	4.5	Height, mast extended	h4 (mm)	4540	4540	4660	4720	4720	4770	4750
	4.7	Height of overhead guard	h6 (mm)	2550	2550	2550	2550	2550	2550	2550
	4.8	Seat height	h7 (mm)	1330	1330	1330	1330	1330	1330	1330
	4.12	Coupling height	h10 (mm)	800	800	800	800	800	800	800
	4.19	Overall length	L1 (mm)	4630	4630	4730	5600	4730	5020	5270
	4.20	Length to face of forks	L2 (mm)	3430	3430	3530	3800	3530	3820	4070
	4.21	Overall width	b1/b2 (mm)	1750 2000	1750 2000	1750 2000	2200	2000	2200	2200 2500
	4.22	Fork dimensions	exsL (mm)	150x60x1200	150x60x1200	150x60x1200	180x70x1800	180x60x1200	180x60x1200	200x70x1200
	4.23	Fork carriage iso 2328/30, FEM/A,B		4A	4A	4A	4A	5A	5A	TW
	4.24	Fork-carriage width	b3 (mm)	1600	1600	1600	2000	1600	2000	2000
	4.31	Ground clearance, laden, below mast	m1 (mm)	180	180	180	180	180	180	180
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	150	150	150	150	150	150	150
4.33	Aisle width for pallets 1000x1200 crossways	Ast (mm)	5010	5010	5160	5380	5180	5460	5765	
4.34	Aisle width for pallets 800x1200 lengthways	Ast (mm)	5210	5210	5360	5580	5380	5615	5965	
4.35	Turning radius	Wa (mm)	3150	3150	3300	3500	3300	3500	3765	
4.36	Internal turning radius	b13 (mm)	1100	1100	1140	1255	1140	1255	1400	
PERFORMANCE	5.1	Travel speed, laden / unladen	(km/h)	18 / 18	18 / 18	18 / 18	17 / 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	0,25 / 0,33
	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	0,5 / 0,4
	5.5	Drawbar pull, laden / unladen (S2 60°)	(N)	9000 / 10000	9000 / 10000	8500 / 9600	8000 / 9100	8500 / 9400	8000 / 9100	8800 / 10000
	5.6	Max. drawbar pull, laden / unladen (S2 5°)	(N)	28300 / 29200	28300 / 29200	27700 / 28800	27200 / 28200	27700 / 28800	27200 / 28200	29000 / 31000
	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	6 / 11
	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	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	5,3 / 4,6
	5.10	Service brake: mech./hydr./electr.		electric	electric	electric	electric	electric	electric	electric
	MOTOR / BATT.	6.1	Drive motor rating (S2 60°)	(kW)	2x15	2x15	2x15	2x15	2x15	2x15
6.2		Lift motor rating (S3 20%)	(kW)	52	52	52	52	52	52	52
6.4		Battery voltage	U (V)	96	96	96	96	96	96	96
6.4.1		Rated capacity	K5 (Ah)	1125 / 1104	1125 / 1104	1320 / 1380	1500 / 1656	1320 / 1380	1500 / 1656	1500 / 1656
6.5		Battery weight minimum/maximum	(kg)	3000 / 3200	3000 / 3200	3300 / 3650	4000 / 4300	3300 / 3650	4000 / 4300	4000 / 4300
OTHERS	8.1	Type of drive control		inverter	inverter	inverter	inverter	inverter	inverter	inverter
	8.2	Operating pressure for attachments	(bar)	200	200	200	200	200	200	200
	8.4	Sound level at the driver's ear	(dBA)	72	72	72	72	72	72	72

(1) With side-shifter integrated in the mast.

(2) Depending on kind of mast. At lifting over 5,5 m, tilting has to be limited at 6°/6°.

Wheels tyre legend: SE super elastic - SEG super elastic twins - C cushion - PN pneumatic - VLK vulkolan: for tyres 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.

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