

Electric powered forklift 80V

B6



Electric powered forklift 3.5 - 4.0 t

IDENTIFICATION

1.1	Manufacturer			CESAB	CESAB
1.2	Model			B6-35H	B6-40
1.3	Drive			Electric	Electric
1.4	Operator type			driver seated	driver seated
1.5	Load capacity/rated load	Q	kg	3500	4000
1.6	Load centre	c	mm	600	500
1.8	Load distance, centre of drive axle to fork	x	mm	518	518
1.9	Wheelbase	y	mm	1886	1886

WEIGHT

2.1	Service weight with battery		kg	6750	6728
2.2	Axle load, with load, drive/castor/fork wheel		kg	8999/1251	9553/1175
2.3	Axle load, without load, drive/castor/fork wheel		kg	3424/3326	3394/3334

TYRES

3.1	Tyres - cushion (C), super elastic (SE), pneumatic (P), twin (TW)			SE	SE
3.2	Wheel size, front		mm	250 - 15	250 - 15
3.3	Wheel size, rear		mm	23x9 - 10	23x9 - 10
3.5	Wheels, number front/rear (x = driven wheels)			2x/2	2x/2
3.6	Track width, front	b ₁₀	mm	1119	1119
3.7	Track width, rear	b ₁₁	mm	1113	1113

DIMENSIONS

4.1	Tilt of mast/fork carriage forward/backward	a/b	deg	5/10	5/10
4.2	Height, mast lowered	h ₁	mm	2500	2500
4.3	Free lift	h ₂	mm	80	80
4.4	Lift	h ₃	mm	3300	3300
	Lift height	h ₂₃	mm	3350	3350
4.5	Height, mast extended	h ₄	mm	4156	4156
4.7	Height of overhead guard (cab)	h ₆	mm	2360	2360
4.8	Seat height/stand height	h ₇	mm	1277	1277
4.12	Coupling height	h ₁₀	mm	550	550
4.19	Overall length	l ₁	mm	3953	3753
4.20	Length to face of forks	l ₂	mm	2753	2753
4.21	Overall width	b ₁	mm	1345	1345
4.22	Fork dimensions	s/e/l	mm	50/150/1200	50/150/1000
4.23	Fork carriage DIN 15173, class/type A, B			3A	3A
4.24	Fork-carriage width	b ₃	mm	1170	1170
4.31	Ground clearance, with load, below mast	m ₁	mm	150	150
4.32	Ground clearance, centre of wheelbase	m ₂	mm	159	159
4.33	Aisle width for pallets 1000x1200 crossways	A _{st}	mm	4169	4169
4.34	Aisle width for pallets 800x1200 lengthways	A _{st}	mm	4369	4369
4.35	Turning radius	W _a	mm	2451	2451
4.36	Internal turning radius	b ₁₃	mm	704	704

PERFORMANCE DATA

5.1	Travel speed, with/without load Standard Performance	km/h	18/18 20/20	18/18 20/20
5.2	Lift speed, with/without load Standard Performance	m/s	0,38/0,47 0,48/0,57	0,37/0,47 0,47/0,57
5.3	Lowering speed, with/without load Standard Performance	m/s	0,52/0,51 0,53/0,52	0,52/0,51 0,54/0,52
5.5	Drawbar pull, with/without load Standard Performance	N	12420 12700	12420 12700
5.6	Max. drawbar pull, with/without load Standard Performance	N	22000 23200	22000 23200
5.7	Gradeability, with/without load Standard Performance	%	11/17 12/19	11/17 11/19
5.8	Max. gradeability, with/without load Standard Performance	%	15/25 21/25	15/25 20/25
5.9	Acceleration time, with/without load Standard Performance	s	5,6/5,2 5,0/4,5	5,8/5,2 5,0/4,5
5.10	Service brake		Mechanical/hydraulic	Mechanical/hydraulic

ELECTRIC MOTOR

6.1	Drive motor rating S2 60 min Standard Performance	kW	25,2 27	25,2 27
6.2	Lift motor rating S3 15% Standard Performance	kW	25,5 28,5	25,5 28,5
6.3	Battery according to DIN 43 531/35/36 A, B, C, no		43536	43536
6.4	Battery voltage, nominal capacity K5 Standard Performance	V/Ah	80/700 (80/775) 90/620	80/700 (80/775) 90/620
6.5	Battery weight	kg	1863	1863
6.6	Energy consumption acc. to EN16796 Standard Performance	kWh/h	9,6 8,8	9,9 9,0

OTHERS

8.1	Type of drive control	AC	AC
8.2	Operating pressure for attachments	bar 180	180
8.3	Oil volume for attachments Standard Performance	l/min 40 55	40 55
10.7	Sound level at the driver's ear according to EN12053 Std. Perf.	dB(A) 68	68

Mast dimensions and rated capacities

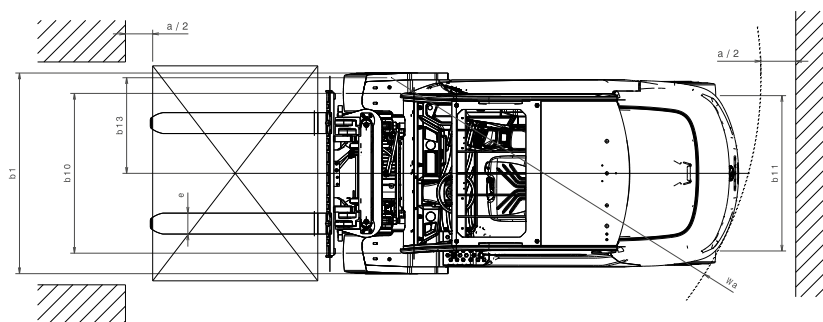
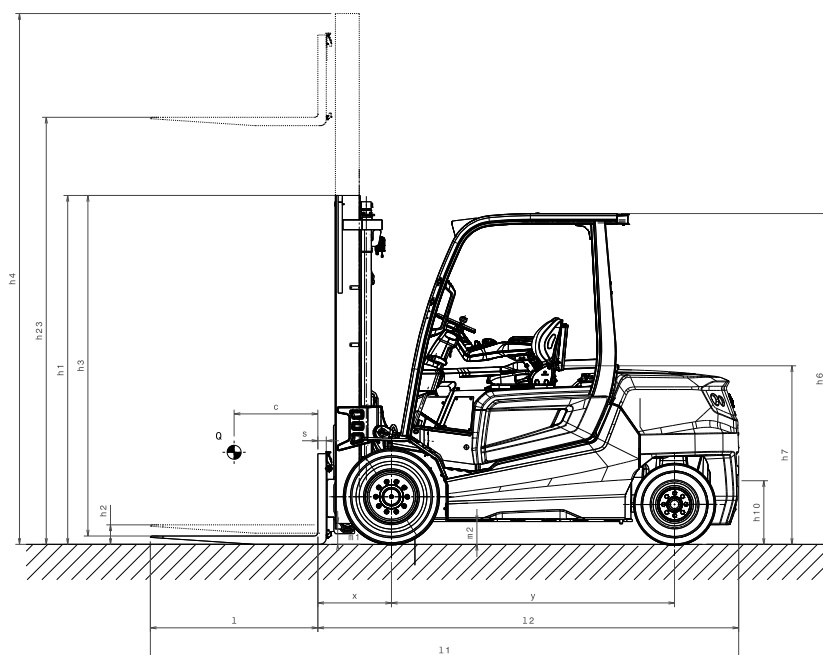
Model		V							FV/FW-IMD				FSV							FSW-IMD						
B6-35H, B6-40	Lift height	h_{23}	3050	3350	3750	4050	4550	5050	5550	3050	3350	3750	4050	4200	4450	4750	5050	5550	6050	6550	4450	4750	5050	5550	6050	6550
	Lift	h_3	3000	3300	3700	4000	4500	5000	5500	3000	3300	3700	4000	4150	4400	4700	5000	5500	6000	6500	4400	4700	5000	5500	6000	6500
	Height, mast lowered	h_1	2360	2500	2750	2880	3130	3380	3630	2360	2500	2750	2880	2200	2360	2440	2500	2750	2880	3130	2360	2440	2500	2750	2880	3130
	Height, mast extended 1)	h_4	3856	4156	4560	4856	5356	5856	6356	3890	4190	4590	4890	5040	5290	5590	5890	6390	6890	7390	5290	5590	5890	6390	6890	7390
	Height, mast extended 2)	h_4	4200	4500	4900	5200	5700	6200	6700	4200	4500	4900	5200	5370	5620	5920	6220	6720	7220	7720	5620	5920	6220	6720	7220	7720
	Free lift, without load backrest	h_2	80	80	80	80	80	80	80	1470	1610	1860	1990	1310	1470	1550	1610	1860	1990	2240	1470	1550	1610	1860	1990	2240
	Free lift, with load backrest	h_2	80	80	80	80	80	80	80	1160	1300	1550	1680	980	1140	1220	1280	1530	1660	1910	1140	1220	1280	1530	1660	1910

1) Without load backrest.

2) With load backrest; Height of standard load backrest is 1200 mm.

Pneumatic shaped cushion tyre			V							FV/FW-IMD				FSV								FSW-IMD					
B6-35H	Tilt range, forward	deg	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	Tilt range, backward	deg	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	6	6	6	6	6	6	6	6	6	6	6	6	6		
	Load capacity at 600 mm LC	kg	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500	3500		
B6-40	Tilt range, forward	deg	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
	Tilt range, backward	deg	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	6	6	6	6	6	6	6	6	6	6	6	6	6		
	Load capacity at 500 mm LC	kg	4000	4000	4000	4000	4000	4000	3850	4000	4000	4000	4000	4000	4000	4000	4000	4000	3900	3800	4000	4000	4000	4000	3900	3800	

Data in () are for when "Cabin Series" or front windshield is selected.



Electric powered forklift 4.0 - 5.0 t

IDENTIFICATION

1.1	Manufacturer		CESAB	CESAB	CESAB
1.2	Model		B6-40HL	B6-45HL	B6-50HL
1.3	Drive		Electric	Electric	Electric
1.4	Operator type		driver seated	driver seated	driver seated
1.5	Load capacity/rated load	Q	kg 4000	4500	4990
1.6	Load centre	c	mm 600	600	600
1.8	Load distance, centre of drive axle to fork	x	mm 518	528	528
1.9	Wheelbase	y	mm 2030	2030	2030

WEIGHT

2.1	Service weight	kg	6933	7511	7836
2.2	Axle load, with load, front/rear	kg	9938/995 1	0740/1271	11449/1377
2.3	Axle load, without load, front/rear	kg	3735/3198	3740/3771	3686/4150

TYRES

3.1	Tyres - cushion (C), super elastic (SE), pneumatic (P), twin (TW)	SE	SE	SE	
3.2	Wheel size, front		250 - 15	28x12,5 - 15	28x12,5 - 15
3.3	Wheel size, rear		23x9 - 10	23x9 - 10	23x9 - 10
3.5	Wheels, number front/rear (x = driven wheels)		2x/2	2x/2	2x/2
3.6	Track width, front	b ₁₀	mm 1119	1145	1145
3.7	Track width, rear	b ₁₁	mm 1113	1113	1113

DIMENSIONS

4.1	Tilt of mast/fork carriage forward/backward	a/b	deg 5/10	5/10	5/10
4.2	Height, mast lowered	h ₁	mm 2500	2500	2500
4.3	Free lift	h ₂	mm 80	80	80
4.4	Lift	h ₃	mm 3300	3300	3300
	Lift height	h ₂₃	mm 3350	3360	3360
4.5	Height, mast extended	h ₄	mm 4156	4156	4156
4.7	Height of overhead guard (cab)	h ₆	mm 2360	2360	2360
4.8	Seat height/stand height	h ₇	mm 1277	1277	1277
4.12	Coupling height	h ₁₀	mm 550	550	550
4.19	Overall length	l ₁	mm 4097	4157	4218
4.20	Length to face of forks	l ₂	mm 2897	2957	3018
4.21	Overall width	b ₁	mm 1345	1440	1440
4.22	Fork dimensions	s/e/l	mm 50/150/1200	60/150/1200	60/150/1200
4.23	Fork carriage DIN 15173, class/type A, B		3A	3A	3A
4.24	Fork-carriage width	b ₃	mm 1170	1170	1170
4.31	Ground clearance, with load, below mast	m ₁	mm 150	150	150
4.32	Ground clearance, centre of wheelbase	m ₂	mm 159	149	149
4.33	Aisle width for pallets 1000x1200 crossways	A _{st}	mm 4324	4355	4411
4.34	Aisle width for pallets 800x1200 lengthways	A _{st}	mm 4524	4555	4611
4.35	Turning radius	W _a	mm 2606	2627	2683
4.36	Internal turning radius	b ₁₃	mm 758	758	758

PERFORMANCE DATA

5.1	Travel speed, with/without load Standard Performance	km/h	18/18 20/20	18/18 20/20	18/18 20/20
5.2	Lift speed, with/without load Standard Performance	m/s	0,36/0,47 0,47/0,57	0,34/0,45 0,43/0,50	0,33/0,45 0,41/0,50
5.3	Lowering speed, with/without load Standard Performance	m/s	0,52/0,51 0,54/0,52	0,47/0,45 0,50/0,46	0,48/0,45 0,55/0,46
5.5	Drawbar pull, with/without load Standard Performance	N	12420 12700	13000 13400	13000 13400
5.6	Max. drawbar pull, with/without load Standard Performance	N	22000 23200	22000 24500	22000 24500
5.7	Gradeability, with/without load Standard Performance	%	10/17 11/19	9/16 10/18	8/15 9/16
5.8	Max. gradeability, with/without load Standard Performance	%	15/25 19/25	14/24 18/24	13/23 16/26
5.9	Acceleration time, with/without load Standard Performance	s	5,8/5,4 5,0/4,6	6,0/5,6 5,1/4,7	6,1/5,6 5,3/4,6
5.10	Service brake		Hydraulic	Hydraulic	Hydraulic

ELECTRIC MOTOR

6.1	Drive motor rating S2 60 min Standard Performance	kW	25,2 27 2	25,2 27	25,2 27
6.2	Lift motor rating S3 15% Standard Performance	kW	25,5 28,5	25,5 28,5	25,5 28,5
6.3	Battery according to DIN 43 531/35/36 A, B, C, no		43536	43536	43536
6.4	Battery voltage, nominal capacity K5 Standard Performance	V/Ah	80/840 (80/930) 90/775	80/840 (80/930) 90/775	80/840 (80/930) 90/775
6.5	Battery weight	kg	2178	2178	2178
6.6	Energy consumption acc. to EN16796 Standard Performance	kWh/h	10,6 9,5 1	11,2 10,8	11,7 11,5

OTHERS

8.1	Type of drive control	AC	AC	AC
8.2	Operating pressure for attachments	bar 180	180	180
8.3	Oil volume for attachments Standard Performance	l/min 40 55	40 55	40 55
10.7	Sound level at the driver's ear according to EN12053 Std. Perf.	dB(A) 68 67	68 67	68 67

Mast dimensions and rated capacities

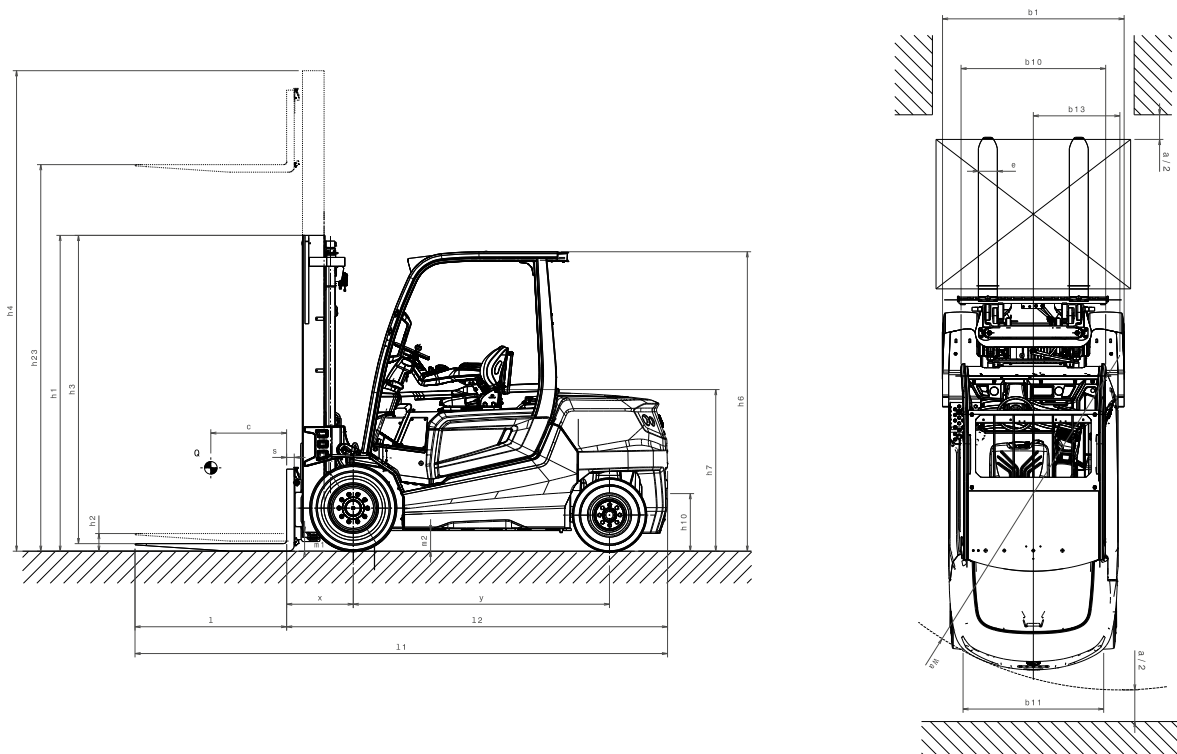
Model			V							FV/FW-IMD				FSV								FSW-IMD							
B6-40HL	Lift height	h ₂₃	3050	3350	3750	4050	4550	5050	5550	3050	3350	3750	4050	4200	4450	4750	5050	5550	6050	6550	4450	4750	5050	5550	6050	6550			
	Lift	h ₃	3000	3300	3700	4000	4500	5000	5500	3000	3300	3700	4000	4150	4400	4700	5000	5500	6000	6500	4400	4700	5000	5500	6000	6500			
	Height, mast lowered	h ₁	2360	2500	2750	2880	3130	3380	3630	2360	2500	2750	2880	2200	2360	2440	2500	2750	2880	3130	2360	2440	2500	2750	2880	3130			
	Height, mast extended ¹⁾	h ₄	3856	4156	4560	4856	5356	5856	6356	3890	4190	4590	4890	5040	5290	5590	5890	6390	6890	7390	5290	5590	5890	6390	6890	7390			
	Height, mast extended ²⁾	h ₄	4200	4500	4900	5200	5700	6200	6700	4200	4500	4900	5200	5370	5620	5920	6220	6720	7220	7720	5620	5920	6220	6720	7220	7720			
	Free lift, without load backrest	h ₂	80	80	80	80	80	80	80	1470	1610	1860	1990	1310	1470	1550	1610	1860	1990	2240	1470	1550	1610	1860	1990	2240			
B6-45HL, B6-50HL	Free lift, with load backrest	h ₂	80	80	80	80	80	80	80	1160	1300	1550	1680	980	1140	1220	1280	1530	1660	1910	1140	1220	1280	1530	1660	1910			
	Lift height	h ₂₃	3060	3360	3760	4060	4560	5060	5560	2860	3360	3760	4060	4060	4360	4760	5060	5560	6060	6560	4360	4760	5060	5560	6060	6560			
	Lift	h ₃	3000	3300	3700	4000	4500	5000	5500	2800	3300	3700	4000	4000	4300	4700	5000	5500	6000	6500	4300	4700	5000	5500	6000	6500			
	Height, mast lowered	h ₁	2360	2500	2750	2880	3130	3380	3630	2360	2630	2880	3130	2200	2360	2500	2630	2880	3130	3380	2360	2500	2630	2880	3130	3380			
	Height, mast extended ¹⁾	h ₄	80	80	80	80	80	80	80	1470	1740	1990	2240	1310	1470	1610	1740	1990	2240	2490	1470	1610	1740	1990	2240	2490			
	Height, mast extended ²⁾	h ₄	80	80	80	80	80	80	80	1160	1430	1680	1930	1000	1160	1300	1430	1680	1930	2180	1160	1300	1430	1680	1930	2180			
	Free lift, without load backrest	h ₂	3956	4156	4560	4856	5356	5856	6356	3690	4190	4590	4890	4890	5190	5590	5890	6390	6890	7390	5190	5590	5890	6390	6890	7390			
Free lift, with load backrest	h ₂	4200	4500	4900	5200	5700	6200	6700	4000	4500	4900	5200	5200	5500	5900	6200	6700	7200	7700	5500	5900	6200	6700	7200	7700				

1) Without load backrest.

2) With load backrest; Height of standard load backrest is 1200 mm.

Model			V								FV/FW-IMD				FSV								FSW-IMD							
B6-40HL	Tilt range, forward	deg	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5					
	Tilt range, backward	deg	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	6	6	6	6	6	6	6	6	6	6	6	6					
	Load capacity at 600 mm LC	kg	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	3750	4000	4000	4000	4000	4000	3600				
B6-45HL	Tilt range, forward	deg	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5					
	Tilt range, backward	deg	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	6	6	6	6	6	6	6	6	6	6	6	6					
	Load capacity at 600 mm LC	kg	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	4500	3850	4500	4500	4500	4500	4500	4500				
B6-50HL	Tilt range, forward	deg	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5					
	Tilt range, backward	deg	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	10(6)	6	6	6	6	6	6	6	6	6	6	6	6					
	Load capacity at 600 mm LC	kg	4990	4990	4990	4990	4990	4990	4990	4990	4990	4990	4990	4990	4990	4990	4990	4990	4800	4750	3850	4000	4000	4000	4900	4750	4280			

Data in () are for when "Cabin Series" or front windshield is selected.



Standard equipments:

- **CESAB** ISD (Intelligent Stability Design)
- **CESAB** AC power system
- Wet disc brakes
- 3 valves - no hoses or mast piping for 3rd valve
- Full hydraulic power steering
- ORS seat (Operator Restraint System)
- Full floating driver compartment
- Assist grip (LH)
- Instrument panel cup holder
- Open chassis design suitable for lateral battery exchange
- Battery door opening sensor
- Wide visible mast [V3300 mm]
- Load backrest [height: 1220 mm]
- Long forks [length: 1000 mm (B6-40)]
- Long forks [length: 1200 mm (B6-35H, B6-40HL, B6-45HL, B6-50HL)]
- Seat mounted mini-lever control system
- Horn in armrest
- Digital multifunction display with wheel indicator
- Multifunction display
- Remaining operating time indicator on main display
- Automatic parking brake
- Wide brake pedal
- Seat belt lock recognition linked with OPS
- Orange seatbelt
- Emergency stop button on armrest
- Operator presence system (OPS)



CMHE-CESAB MATERIAL HANDLING EUROPE - Version 1, 03-2026