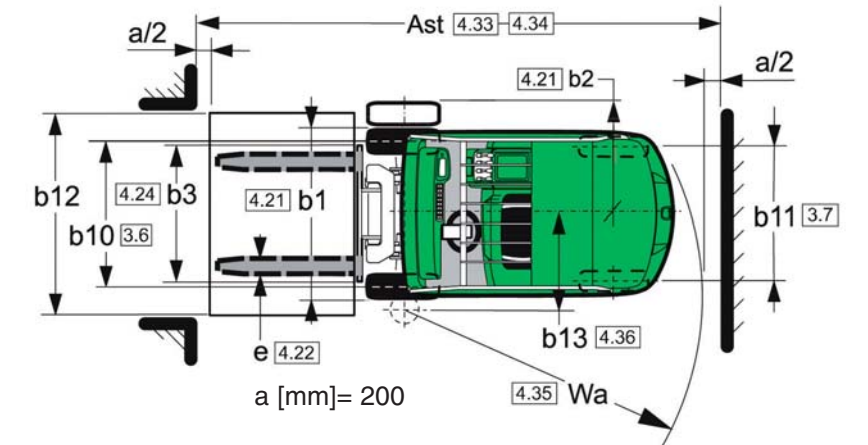
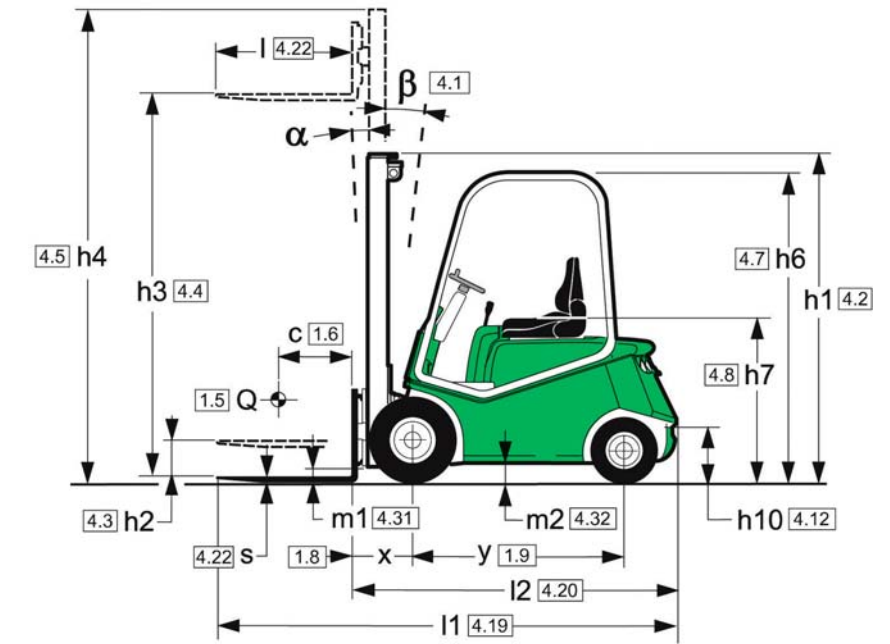


VDI 2198

Characteristics	1.1	Manufacturer	CESAB	CESAB	CESAB	CESAB	CESAB	CESAB	CESAB		
	1.2	Model designation	BLITZ 412	BLITZ 415	BLITZ 416	BLITZ 418	BLITZ 416L	BLITZ 418L	BLITZ 420		
	1.3	Power unit: electric (battery), diesel, petrol, LPG	electric	electric	electric	electric	electric	electric	electric		
	1.4	Operation: manual, pedestrian, stand-on, driver seated	driver seated	driver seated	driver seated	driver seated	driver seated	driver seated	driver seated		
	1.5	Load capacity	Q (kg)	1200	1500	1600	1800	1600	1800	2000	
	1.6	Load centre	c (mm)	500	500	500	500	500	500	500	
	1.8	Axle centre to fork face	x (mm)	365.5 (b)	365.5 (b)	365.5 (b)	365.5 (b)	365.5 (b)	365.5 (b)	365.5 (b)	
	1.9	Wheel-base	y (mm)	1290	1290	1400	1400	1532	1532	1532	
	Pesi	2.1	Weight	kg	2950 (a)	3140 (a)	3180 (a)	3320 (a)	3300 (a)	3480 (a)	3520 (a)
2.2		Axle load with load, front/rear	kg	3675 / 475	4150 / 490	4380 / 480	4600 / 520	4330 / 570	4650 / 530	4940 / 580	
2.3		Axle load without load, front/rear	kg	1665 / 1285	1670 / 1470	1650 / 1530	1630 / 1690	1820 / 1480	1830 / 1550	1820 / 1700	
Wheels and chassis	3.1	Tyres: C=Cushion, SE=Superelastic, PN=Pneumatic, TW=Twin	C - SE - PN	C - SE - PN	C - SE - PN	C - SE	C - SE - PN	C - SE	C - SE		
	3.2	Tyre size, front	432x152 - 18x7-8 - 18x7-8	432x152 - 18x7-8 - 18x7-8	432x152 - 18x7-8 - 18x7-8	457x178 - 200/50-10	432x152 - 18x7-8 - 18x7-8	457x178 - 200/50-10	457x178 - 200/50-10		
	3.3	Tyre size, rear	381x127 - 16x6-8 - 16x6-8	381x127 - 16x6-8 - 16x6-8	381x127 - 16x6-8 - 16x6-8	381x127 - 16x6-8	381x127 - 16x6-8 - 16x6-8	381x127 - 16x6-8	381x127 - 16x6-8		
	3.5	Wheels, number front/rear (x = driven)	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2	2x / 2		
	3.6	Track width, front	b10 (mm)	839 - 851 - 851	839 - 851 - 851	839 - 851 - 851	843 - 866	839 - 851 - 851	843 - 866	843 - 866	
	3.7	Track width, rear	b11 (mm)	863 - 843 - 843	863 - 843 - 843	863 - 843 - 843	863 - 843	863 - 843 - 843	863 - 843	863 - 843	
	Dimensions	4.1	Mast tilt, forward/backward	α / β (degrees)	2°30' / 6°	2°30' / 6°	2°30' / 6°	2°30' / 6°	2°30' / 6°	2°30' / 6°	2°30' / 6°
4.2		Height of mast, lowered	h1 (mm)	2160	2160	2160	2160	2160	2160	2160	
4.3		Free lift	h2 (mm)	80	80	80	80	80	80	80	
4.4		Lift height	h3 (mm)	3170	3170	3170	3170	3170	3170	3170	
4.5		Height of mast, extended	h4 (mm)	3720	3720	3720	3720	3720	3720	3720	
4.7		Height of overhead guard	h6 (mm)	1950	1950	1950	1950	1950	1950	1950	
4.8		Height of driver's seat	h7 (mm)	888	888	888	888	888	888	888	
4.12		Towing coupling height	h10 (mm)	630	630	630	630	630	630	630	
4.19		Overall length	l1 (mm)	2948.5 (b)	2993.5 (b)	3058.5 (b)	3103.5 (b)	3190.5 (b)	3190.5 (b)	3235.5 (b)	
4.20		Length to fork face	l2 (mm)	1948.5 (b)	1993.5 (b)	2058.5 (b)	2103.5 (b)	2190.5 (b)	2190.5 (b)	2235.5 (b)	
4.21		Overall width	b1/b2 (mm)	990-1003-1003/NO	990-1003-1003/NO	990-1003-1003/NO	1006 - 1066/NO	990-1003-1003/NO	1006 - 1066/NO	1006 - 1066/NO	
4.22		Fork dimensions	s/e/l (mm)	35 x 100 x 1000	35 x 100 x 1000	35 x 100 x 1000	35 x 120 x 1000	35 x 100 x 1000	35 x 120 x 1000	35 x 120 x 1000	
4.23		Fork carriage to DIN 15173, class/form A, B		II A	II A	II A	II A	II A	II A	II A	
4.24		Width of fork carriage	b3 (mm)	900	900	900	900	900	900	900	
4.31		Floor clearance, mast (with load)	m1 (mm)	100	100	100	100	100	100	100	
4.32		Floor clearance, centre of wheel-base (with load)	m2 (mm)	90	90	90	90	90	90	90	
4.33	Aisle width with pallets 1000 x 1200 across forks	Ast (mm)	3301	3341	3403	3442	3524	3524	3564		
4.34	Aisle width with pallets 800 x 1200 along forks	Ast (mm)	3496	3536	3599	3638	3721	3721	3761		
4.35	Turning radius	Wa (mm)	1730	1770	1833	1872	1955	1955	1995		
Performance	5.1	Travel speed, with/without load	km/h	15 / 16	15 / 16	15 / 16	14.5 / 16	15 / 16	14.5 / 16	14.5 / 16	
	5.2	Lifting speed, with/without load	m/s	0.4 / 0.6	0.4 / 0.6	0.4 / 0.6	0.38 / 0.6	0.4 / 0.6	0.38 / 0.6	0.36 / 0.6	
	5.3	Lowering speed, with/without load	m/s	0.55 / 0.50	0.55 / 0.50	0.55 / 0.50	0.55 / 0.50	0.55 / 0.50	0.55 / 0.50	0.55 / 0.50	
	5.5	Tractive force, with/without load	N	5200 / 5400	5200 / 5400	5200 / 5400	5200 / 5400	5200 / 5400	5200 / 5400	5200 / 5400	
	5.6	Maximum tractive force, with/without load, S2 5 minute rating	N	14450 / 15000 (d)	14450 / 15000 (d)	14450 / 15000 (d)	14450 / 15000 (d)	14450 / 15000 (d)	14450 / 15000 (d)	14450 / 15000 (d)	
	5.7	Climbing ability, with/without load, S2 30 minute rating	%	14 / 16.5	13.5 / 16	13 / 15.5	12.5 / 15	13 / 15.5	12.5 / 15	12 / 15.5	
	5.8	Maximum climbing ability, with/without load, S2 5 minute rating	%	27 / 32 (d)	26.5 / 31.5 (d)	26 / 31 (d)	25.5 / 30.5 (d)	26 / 31 (d)	25.5 / 30.5 (d)	25 / 30 (d)	
	5.10	Service brake: mechanical/hydraulic/electric/pneumatic		hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	
	Electric motor	6.1	Drive motor, S2 60 minute rating	kW	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	4.5 x 2
		6.2	Lift motor, S3 15% rating	kW	12	12	12	12	12	12	12
6.4		Battery voltage/rated capacity (5 h)	V/Ah	48 / 420 - 500	48 / 420 - 500	48 / 525 - 625	48 / 525 - 625	48 / 630 - 750	48 / 630 - 750	48 / 630 - 750	
6.5		Battery weight	kg	775	775	920	920	1090	1090	1090	
Others		8.1	Type of drive control		Inverter MOSFET	Inverter MOSFET	Inverter MOSFET	Inverter MOSFET	Inverter MOSFET	Inverter MOSFET	Inverter MOSFET
	8.2	Working pressure for attachments	bar	140	140	140	140	140	140	140	

(a) Battery included (b) With side shift = + 34 mm (d) Data refer to the electric motors and transmission capacity

NOTES: Unless otherwise specified, all data refer to vehicles with SE tyres. All performance figures refer to fully run-in vehicles, in perfect working status with homologated tyres mix, battery fully charged and excellent conditions with closed circuit voltage equal to nominal value. Truck performance and dimensions are nominal and subject to tolerances.



Masts specifications (1200 - 2000 Kg)

Mast	mm	Duplex					Duplex FFL			
		2970	3170	3670	4170	4670	2840	3170	3670	4170
h3	Lift height	2970	3170	3670	4170	4670	2840	3170	3670	4170
h1	Height of mast, lowered	2060	2160	2410	2660	2910	1990	2160	2410	2660
h2	Free lift	80	80	80	80	80	1410	1580	1830	2080
h4	Height of mast, extended	3520	3720	4220	4720	5220	3420	3750	4250	4750
α / β	Mast tilt forward/backward	2°30' / 6°					2°30' / 6°			

Masts specifications (1200 - 2000 Kg)

Mast	mm	Triplex					Triplex FFL						
		4320	4965	5565	6165	6570	4270	4470	4970	5570	6170	6570	6970
h3	Lift height	4320	4965	5565	6165	6570	4270	4470	4970	5570	6170	6570	6970
h1	Height of mast, lowered	2010	2260	2460	2710	2860	1990	2060	2260	2460	2710	2860	3010
h2	Free lift	0	0	0	0	0	1410	1480	1680	1880	2130	2280	2430
h4	Height of mast, extended	4900	5570	6170	6820	7240	4850	5050	5550	6150	6750	7150	7550
α / β	Mast tilt forward/backward	2°30' / 6°					2°30' / 6°						