Cargo E4

C3E120
C3E150
C3E160
C3E180
C3E200
C3E160L
C3E180L

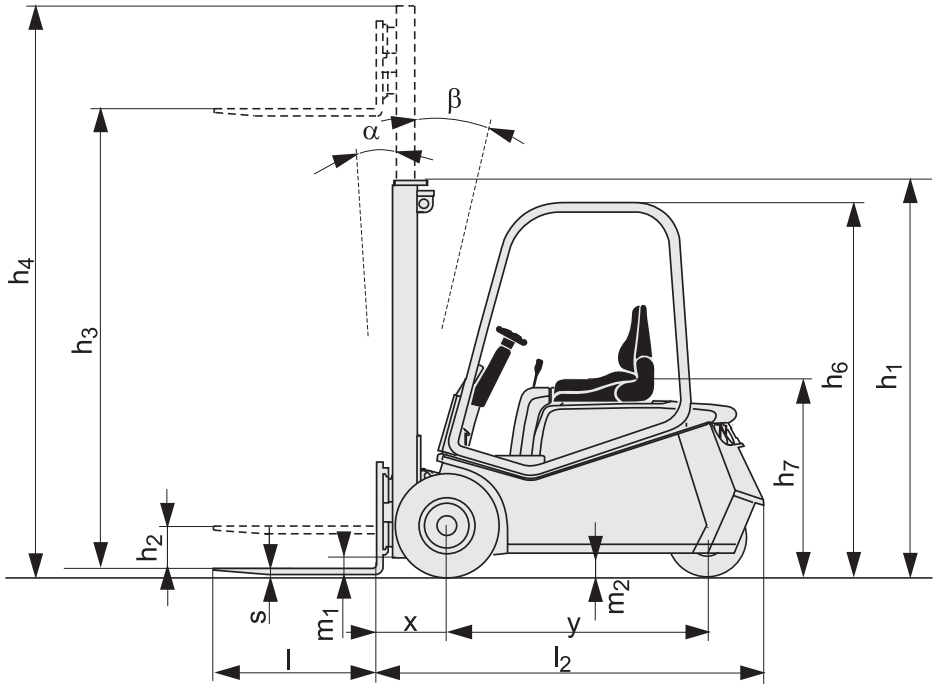
The Cargo AC three-wheel electric counterbalance truck from BT is designed for maximum manoeuvrability. With its low centre of gravity, the very stable three-wheel design utilises two independent high power front wheel traction AC motors to form an electronic differential which allows it to work in the tightest of spaces.

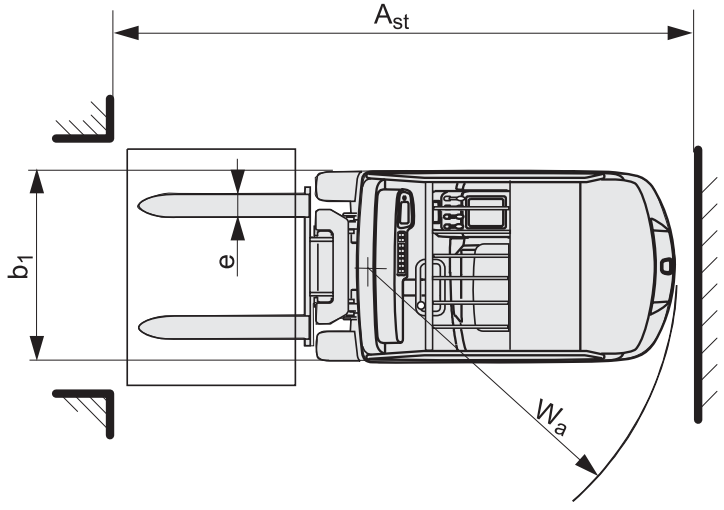
Technical Details		120	150	160	180	160L	180L	200
Power unit		electric						
Operating type		driver seated						
Rated capacity	kg	1200	1500	1600	1800	1600	1800	2000
Load centre	mm	500	500	500	500	500	500	500
Load per axle without load, front/rear	kg	1675/1285	1680/1510	1740/1490	1770/1605	1845/1490	1860/1580	1850/1715
Load per axle with load, front/rear	kg	3685/475	4200/490	4370/460	4695/480	4355/580	4690/550	4985/580
Number of wheels, front/rear		2/2	2/2	2/2	2/2	2/2	2/2	2/2
Wheel type, front/rear [1]		C/SE/PN [2]	C/SE/PN [2]	C/SE/PN [2]	C/SE	C/SE/PN [2]	C/SE	C/SE
dimension, 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
dimension, rear		381x127/ 16x6-8	381x127/ 16x6-8	381x127/ 16x6-8	381x127/ 16x6-8	381x127/ 16x6-8	381x127/ 16x6-8	381x127/ 16x6-8
Centre of wheels, front	mm	839/851 [3]	828/851 [3]	839/851 [3]	828/861	839/851 [3]	828/861	828/861
Centre of wheels, rear	mm	199/229 [3]	199/229 [3]	199/229 [3]	199/229	199/229 [3]	199/229	199/229
Fork arm carriage acc. to ISO-FEM		II A	II A	II A	II A	II A	II A	II A
Travel speed, without/with rated load	km/h	14.5/14.5	14.5/14.5	14.5/14.5	14.5/14.5	14.5/14.5	14.5/14.5	14.5/14.5
Service brake		hydraulic						
Parking brake		electrohydraulic switch						
Lift speed, without/with rated load	m/s	0.60/0.40	0.60/0.40	0.60/0.40	0,60/0,38	0.60/0.40	0,60/0,38	0,60/0,36
Lowering speed, without/with rated load	m/s	0,50/0,55	0,50/0,55	0,50/0,55	0,50/0,55	0,50/0,55	0,50/0,55	0,50/0,55
Nom. drawbar pull, without/with load	N	5400/5200	5400/5200	5400/5200	5400/5200	5400/5200	5400/5200	5400/5200
Max. drawbar pull, without/with load (S2 5')	N	15000/ 14450	15000/ 14450	15000/ 14450	15000/ 14450	15000/ 14450	15000/ 14450	15000/ 14450
Gradient, without/with rated load (S2 30')	%	16,5/14,0	16,0/13,5	15,5/13,0	15,0/12,5	15,5/13,0	15,0/12,5	15,5/12,0
Max. gradient, without/with rated load (S2 5')	%	32,0/27,0	31,5/26,5	31,0/26,0	30,5/25,5	31,0/26,0	30,5/25,5	30,0/25,0
Drive motor	kW	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2	6 x 2
Lift motor	kW	12	12	12	12	12	12	12
Battery capacity	V/Ah	48/420-500	48/420-500	48/525-625	48/525-625	48/630-750	48/630-750	48/630-750
Battery weight	kg	775	775	920	920	1090	1090	1090
Weight with battery	kg	2960	3190	3230	3375	3335	3440	3565
Steering system		hydraulic						
Speed control		AC Mosfet						
Working pressure for attachments	bar	140	140	140	140	140	140	140

Dimensions, mm		120	150	160	180	160L	180L	200
x	Front axle to fork face	365,5 [4]	365,5 [4]	365,5 [4]	365,5 [4]	365,5 [4]	365,5 [4]	365,5 [4]
y	Wheel base	1300	1300	1410	1410	1542	1542	1542
α/β	Mast tilt forward/backward	2°30'/6°	2°30'/6°	2°30'/6°	2°30'/6°	2°30'/6°	2°30'/6°	2°30'/6°
h_6	Height overhead guard	1950	1950	1950	1950	1950	1950	1950
h_7	Height of driver's seat	888	888	888	888	888	888	888
l_2	Truck length incl. back of fork	1880 [4]	1920 [4]	1990 [4]	2030 [4]	2122 [4]	2122 [4]	2162 [4]
b_1	Chassis, width	990/1003	990/1003	990/1003	1006/1066	990/1003	1006/1066	1006/1066
s	Fork thickness	35	35	35	35	35	35	35
e	Fork width	100	100	100	120	100	120	120
l	Fork length	1000	1000	1000	1000	1000	1000	1000
m_1	Floor clearance under mast	100	100	100	100	100	100	100
m_2	Floor clearance mid wheelbase	90	90	90	90	90	90	90
A_{st}	Aisle width, mm Pallet size 800x1200/1000x1200	3332/ 3208 [5]	3372/ 3248 [5]	3442/ 3318 [5]	3482/ 3358 [5]	3574/ 3450 [5]	3574/ 3450 [5]	3615/ 3490 [5]
W_a	Turning radius	1517	1557	1627	1667	1759	1759	1799

1) C = Cushion, SE = Superelastic, PN = Pneumatic, TW = Twin
2) PN available only on front tyres
3) C/SE
4) With side shift = +34mm
5) Shortside handling / longside handling

Mast, mm																		
h_3	Lift height	2840	2970	3170	3670	4170	4270	4320	4470	4670	4965	4970	5565	5570	6165	6170	6570	6970
Duplex																		
h_1	Height of mast, min.		2060	2160	2410	2660				2910								
h_2	Free lift		80	80	80	80				80								
h_4	Height of mast, max.		3520	3720	4220	4720				5220								
Duplex FFL																		
h_1	Height of mast, min.	1990		2160	2410	2660												
h_2	Free lift	1410		1580	1830	2080												
h_4	Height of mast, max.	3420		3750	4250	4750												
Triplex																		
h_1	Height of mast, min.							2010			2260		2460		2710		2860	
h_2	Free lift							0			0		0		0		0	
h_4	Height of mast, max.							4900			5570		6170		6820		7240	
Triplex FFL																		
h_1	Height of mast, min.						1990		2060			2260		2460		2710	2860	3010
h_2	Free lift						1410		1480			1680		1880		2130	2280	2430
h_4	Height of mast, max.						4850		5050			5550		6150		6750	7150	7550





Truck performance and dimensions are nominal and subject to tolerances.
BT Products AB products and specifications are subject to change without notice.
All data is based on VDI 2198.

- The ergonomic cab features the highest standards in operator comfort, safety and ease of access.
- High visibility and stability. The position of the uprights, which are widely spaced, guarantees excellent visibility and at the same time gives a rigid structure even at great height. Equipped with integrated side-shift as standard.
- Various drive programs can be selected by simply pressing the push-buttons on the steering column.
- The automobile-style dashboard has main function indicator lights plus error codes display for a rapid fault identification.
- The AC controller can be used to program and customize the parameters of the various functions; braking, traction and lift acceleration, and minimum acceleration threshold.
- The CAN-Technology simplifies the electrical system by reducing wiring and increases the flexibility of the truck control system.
- As well as guaranteeing constantly effective braking action, the use of oil bath brakes allows savings on routine servicing costs.

Truck features	C3E120-200	C3E160L-180L
Adjustable fork width	S	S
Tilting mast	S	S
Counter-rotating front wheels	S	S
High capacity battery models	—	S
Controls and instruments		
Hydraulic steering	S	S
Information display	S	S
Sideshift	S	S
Electronic fingertip controls	O	O
Mini-joystick electronic controls	O	O
Driving features		
Electronic regenerative brakes	S	S
Three driving programs	S	S
Curve cut-back speed	S	S
Safety features		
Clear-view mast	S	S
Emergency cut-off	S	S
Programmable performance	S	S
Drivers compartment features		
Adjustable steering wheel	S	S
Enclosed cab with or without heating	O	O
Maintenance features		
Easy access for maintenance	S	S
Fault diagnosis facility	S	S
Oil bath brakes	S	S
Battery management features		
Battery status indicator	S	S
Battery discharge prevention system	S	S
Special applications		
Coldstore version	O	O

S = Standard feature O = Optional feature — = Not available

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