

C3E120-200
C3E160L-180L



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. Lifting capacity from 1200 kg up to 2000 kg, lift heights up to 7005 mm.

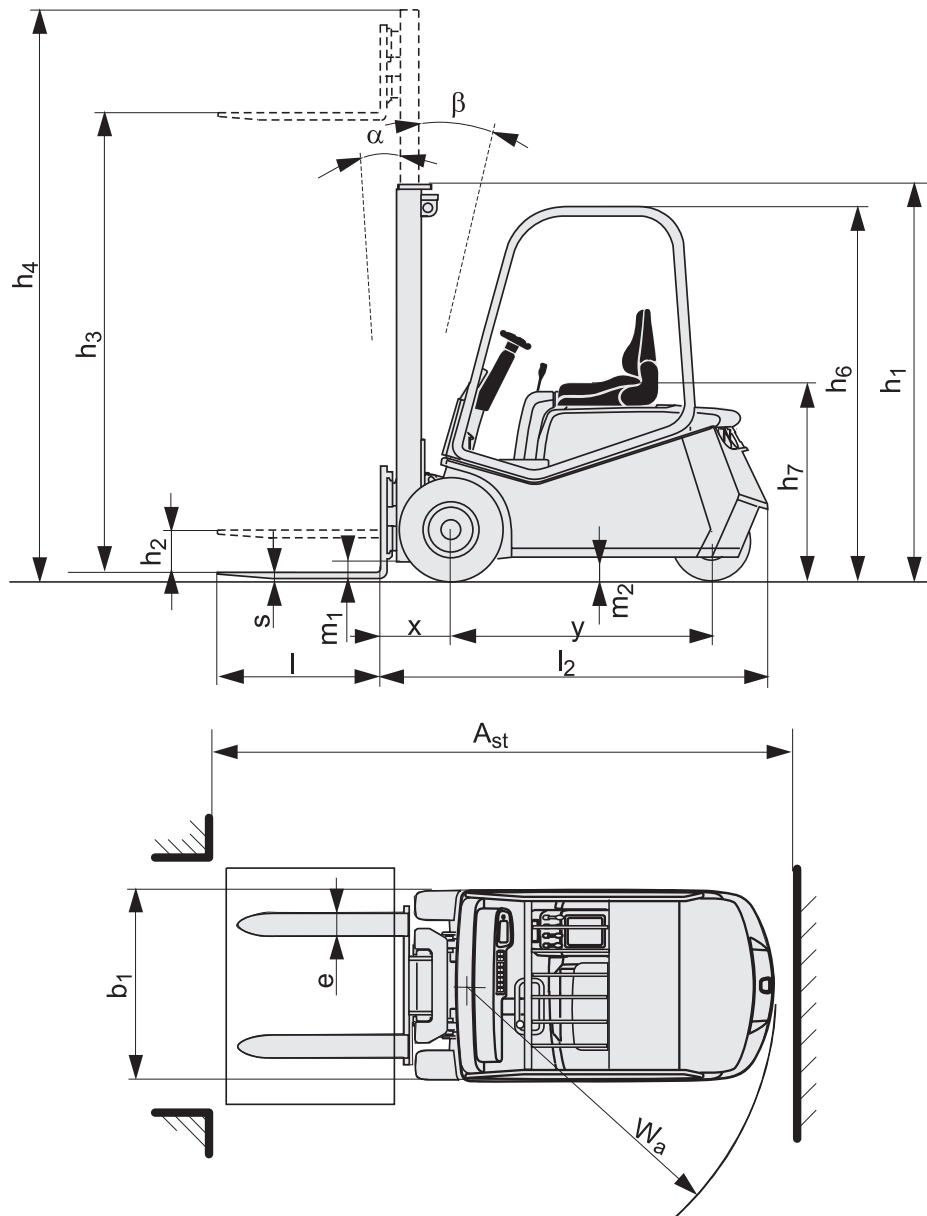


Technical Details		120	150	160	180	160L	180L	200
Power unit		electric						
Operating type		driver seated						
Rated capacity	kg	1200	1500	1600	1800	1600	1800	2000
Load centre	mm	500	500	500	500	500	500	500
Load per axle without load, front/rear	kg	1675/1285	1680/1510	1740/1490	1770/1605	1845/1490	1860/1580	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	432x152/ 18x7-8	432x152/ 18x7-8	457x178/ 200 50-10	432x152/ 18x7-8	457x178/ 200 50-10	457x178/ 200 50-10
dimension, 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
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/ 229	199/229/ 229	199/229/ 229	199/229	199/229/ 229	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	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
Parking brake		hand brake	hand brake	hand brake	hand brake	hand brake	hand brake	hand brake
Lift speed, without/with rated load	m/s	0,54/0,35	0,54/0,34	0,54/0,34	0,54/0,33	0,54/0,34	0,54/0,33	0,54/0,32
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	3140/2900	3140/2840	3140/2820	3140/2780	3140/2820	3140/2780	3140/2740
Max. drawbar pull, without/with load (S2 5')	N	9000/8760	9000/8700	9000/8680	9000/8640	9000/8680	9000/8640	9000/8620
Gradient, without/with rated load (S2 30')	%	10,6/7,0	9,7/6,0	9,6/5,7	9,1/5,2	10,1/6,1	8,9/5,1	8,5/4,7
Max. gradient, without/with rated load (S2 5')	%	30,0/21,0	28,0/18,0	28,0/17,5	26,5/16,0	27,0/17,0	26,0/16,0	25,0/15,0
Drive motor	kW	4,5 x 2	4,5 x 2	4,5 x 2	4,5 x 2	4,5 x 2	4,5 x 2	4,5 x 2
Lift motor	kW	10	10	10	10	10	10	10
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	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic	hydraulic
Speed control		AC Mosfet	AC Mosfet	AC Mosfet	AC Mosfet	AC Mosfet	AC Mosfet	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	130	100	130	130
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	3332/ Pallet size 800x1200/1000x1200	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-Bus 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
EEx version (ATEX)	O	O

S = Standard feature

O = Optional feature

— = Not available

BT
 SE-595 81 Mjölby Sweden
 Tel: +46 (0)142 860 00
 Fax: +46 (0) 142 866 00
 Email: info@bt-forklifts.com
 www.bt-forklifts.com

