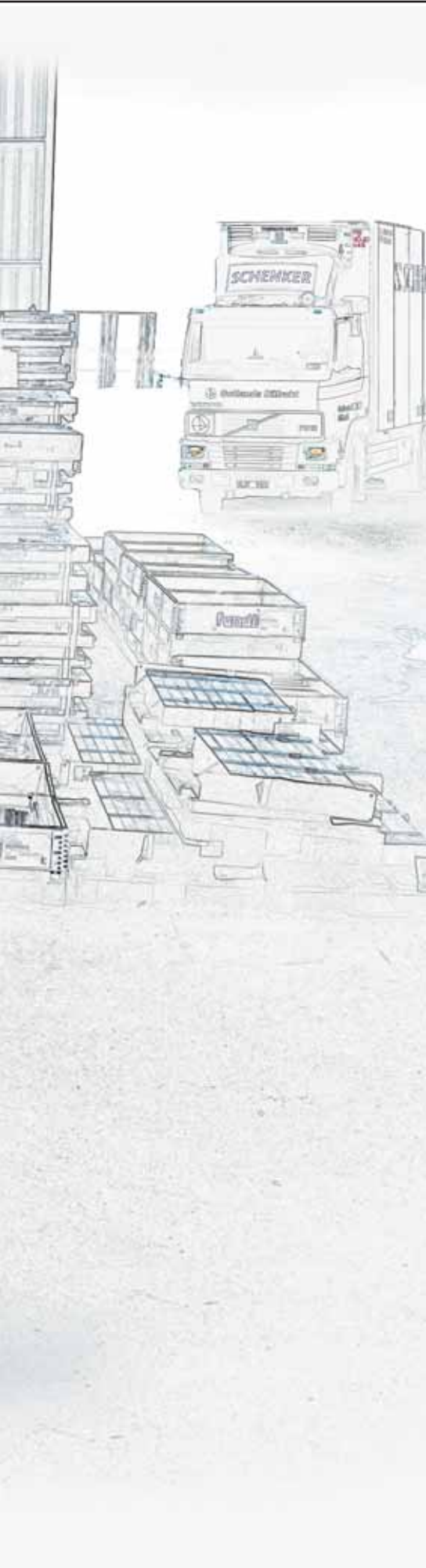


Cargo E-series





Cargo E-series



The BT Cargo E-series range of electric counterbalance trucks offers the most complete choice of models—all with a host of standard features and the assurance of the highest levels of productivity.

A wide range for all applications (pp 4–5)

One of the widest ranges of electric trucks in the industry, with compact models that offer maximum manoeuvrability for work in confined areas, trucks with high-capacity batteries for extended working hours, and heavy-duty models with capacities up to five tonnes. All E-series trucks incorporate a host of standard features and offer maximum flexibility in operation.

Power and performance (pp 6–7)

Every truck in the family is driven by BT's proven AC power system, with advanced CAN-Bus control. The result is exceptional power for acceleration and travel speed, regeneration of energy for efficient and extended working patterns, and exceptional reliability with simplified service and maintenance. The trucks are highly programmable and offer intelligent motor control for safe and effective operation.

The driver experience (pp 8–9)

Maximum productivity demands a high performance truck, but also a positive driver experience, which requires ergonomics, safety, and ease of operation. The E-series fully meets these demands. Every truck in the range offers:

- sideshift as standard equipment*
- automatic speed reduction when cornering
- a choice of three different direction control systems
- a choice of three different fork control systems
- rear safety lights as standard equipment
- clear-view masts on all models
- a comprehensive driver information display

Options for maximum flexibility (p 10)

All BT Cargo models are designed to easily accommodate equipment for special applications: anything from a hydraulically controlled fork-spread attachment to invertors, half or fully enclosed cabs, and trucks engineered for coldstores, corrosive environments, or ATEX classified applications.

Feature check (p 11)

Check out the full range of features built into the E-series of electric counterbalance trucks. The total package of model choice, power, performance, drivability, reliability, and flexibility ensures the highest levels of productivity in operation.

* optional on 4.0–5.0 tonne models

A wide range for all applications

CBE 12-20 T and F models (48 volt)
For a wide range of typical applications, the E-series offers a complete range of models with handling capacities of 1200, 1500, 1600, 1800, or 2000kg.

For maximum manoeuvrability 'three-wheel' (T) models are ideal in all types of application, being able to work comfortably in racking systems as well as undertaking general pallet handling duties. A twin rear wheel configuration improves traction, comfort, and stability when working at height without compromising ease of operation.

For applications that require the highest levels of stability during the handling process—for example when working on ramps or slopes—four-wheel (F) models are available.



Cargo E-series



C4E160-200NL models (48 volt)
C4E200-300NV models (80 volt)
The C4E models in the E-series provide a series of operational benefits in certain applications. The design of these trucks allows a compact overall machine size for maximum manoeuvrability, an elevated driving position for increased visibility, and a greater battery capacity that typically allows up to two full working shifts on a single battery charge. Fast sideways battery change is also an option for these models. Capacities of 1600, 2000, 2500 and 3000kg are available.



CBE 25-35 models (80 volt)
CBE 40-50 models (80 volt)
For heavy-duty operations, the E-series has models with capacities up to five tonnes. Powerful 80 volt AC-power electrical systems ensure the highest standards of performance. There are two chassis platforms, offering capacities of 2500/3000/3500kg or 4000/4500/5000kg respectively.



Power and performance

AC power and CAN-Bus control

E-series models are powered by AC motors, which offer excellent torque and acceleration.

Braking is regenerative and occurs whenever the accelerator is released, which gives improved control and longer working cycles. Truck speed can be controlled by the accelerator pedal alone, with braking effected as soon as it is released.

AC power also brings the advantages of superior performance adaptability. Switching between forward and reverse travel is faster, and on ramps and slopes the AC motors allow excellent control.

The absence of carbon brushes and power contacts in AC motors significantly reduces maintenance time and parts costs. The CAN-Bus concept also reduces the number of components and improves overall control flexibility and reliability.

High-capacity battery models

Selected Cargo E-series models are designed to be fitted with high-capacity batteries, allowing extended work cycles. These include CBE 16L, 18L, 30L, and C4E160-200L models.



Sideways battery change on C4E 'N' models
The C4E 'N' models in the E-series range can be equipped with very high-capacity batteries for extended working shifts. However, they are also available with the option of fast and easy roller-bed based sideways battery change for multi-shift operation.



Intelligent drive-motor control system

All models feature intelligent drive-motor control systems.

There are two key advantages. Firstly, the drive-motors adapt to the turning radius of the truck. All 48 volt machines have twin drive motors, which automatically reverse the drive direction of one wheel when approaching full lock. This applies to both 3 and 4 wheel models. Heavier duty 80 volt trucks feature a single heavy-duty drive-motor with an active differential system.

The second advantage is automatic speed reduction when cornering, which increases safety and aids driver confidence in order to maintain maximum productivity.

Cargo E-series



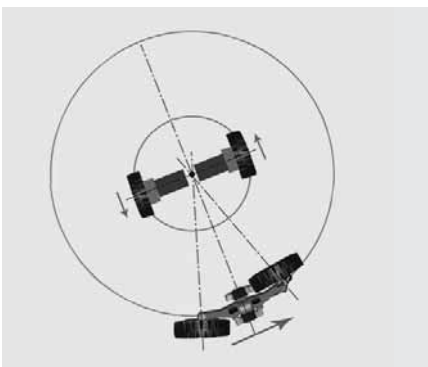
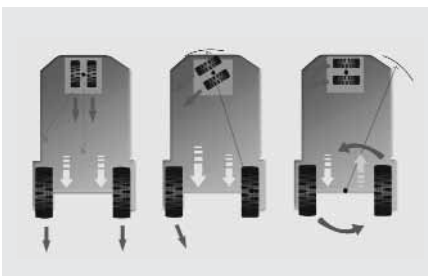
Programmable performance

In addition to standard low and high performance settings, all E-series models' performance parameters can be programmed to suit the operator and the application.

Creep speed, acceleration and deceleration rates, tilting and sideshift speed, braking rate, and top speed, are all programmable.

Low-maintenance braking systems

All E-series models feature oil-immersed disc brakes, which require significantly less maintenance than non-sealed systems, while delivering controllable, progressive braking.



Exceptional turning circle

All E-series trucks have an excellent turning circle. On C4E models, however, it is greater than 90°, for exceptional manoeuvrability.

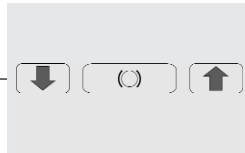
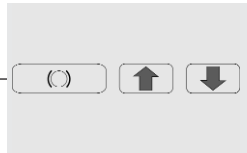
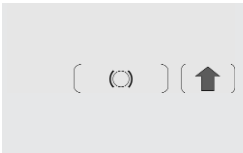
The driver experience

Of course, the most important feature of any fork-lift truck is its operator. The cab on all Cargo models is designed solely with him or her in mind. Everything from the seat to the steering wheel is fully adjustable to ensure maximum comfort, and therefore, safety and productivity.



A choice of fork control systems

E-series models are available with a choice of three different fork control systems, which ensures the optimum method can be chosen to meet driver preference and the needs of individual applications. Traditional hydraulic control levers are available, but alternative variants based on a multi-function armrest are also available. Fingertip control levers are offered for effortless and accurate fork movements, or twin mini-joysticks which offer intuitive control throughout the handling process.



A choice of directional control systems

Fork truck manufacturers have developed alternative methods of direction control for counterbalance trucks. Therefore, in order to ensure a perfect fit in any operation, all E-series models offer a choice of three pedal arrangements. The two-pedal variant works with manual direction control. Alternatively there is a choice of two different three-pedal variants available, thereby ensuring a perfect application fit, matching existing driver experience.



Car-type handbrake

All E-series trucks have a handbrake like that found in a car. It is conveniently mounted to the left of the steering column. The emergency cut-off button is also mounted here.



Cargo E-series



Sideshift as standard
Unlike most other manufacturers' ranges, sideshift is standard on all Cargo electric models*, to ensure safety and accuracy in the tightest situations.

* optional on 4.0–5.0 tonne models

Comprehensive driver information display

The dashboard contains all instruments necessary for safe driving, including warning, fault-finding, and maintenance indicators. Battery condition, parking brake position, drive direction and selected performance mode are all displayed. A photocell ensures that the display's brightness is always optimised for the ambient light levels.



CBE 12–20 models feature an invaluable rear wheel position indicator, which tells the operator the precise alignment of the steered wheels at any time, aiding safety and productivity.

Programmable performance and automatic speed reduction

Three drive programmes are available (low, high, and programmed performance), directly selectable by the operator by push-buttons (L–H–P) on the steering column.

Turtle button

The turtle button on the steering column allows instant maximum speed reduction of 60% in all drive programmes. This is ideal when passing through hazardous areas, such as, for example, passing doorways. E-series models also have programmable creep speed or 'inching'. This allows fine control over truck position for precise and safe operation.



Clear-view masts

All masts are clear-view, with widely spaced uprights for maximum visibility.



Rear safety lights as standard
Brake and reversing lights are fitted as standard on all models. Turning indicators are optional.

Options for maximum flexibility

Fork control systems

For more intuitive control with minimum operator effort, a multi-function armrest is available on all E-series models with a choice of fingertip levers or two mini-joysticks (see page 8).



Directional control systems

As an alternative to the standard two-pedal layout, two three-pedal alternatives are also available, to suit operator preference and, therefore, easy integration into any application (see page 8).



Fork attachments

E-series models are available with a wide variety of fork attachments, including fork spreaders, inverters, and clamps. Talk to your local BT supplier for more information.

Complete lights system

All Cargo models are available with a complete lights system.



Tyre options

All Cargo models come with Superelastic tyres as standard. They can also be supplied with pneumatic, cushion, or non-marking tyres for clean environments. The 2.5–5.0 tonne models are also available with twin-drive tyres.

Enclosed cabs

Cargo trucks are available with a choice of cabs for outdoor work: half cab, canvas cab (PVC sides), and complete cab. All cabbed trucks have front and rear wipers. A heating system is optional for trucks fitted with a cab.



Corrosive environment version

CBE 1.2 to 3.5 tonne models are available in corrosive environment versions.

Coldstore specification

E-series models are available adapted for use in coldstore environments.

EEx version

All Cargo electric models are available in ATEX-compliant EEx versions (categories 2G/D and 3G/D) for use in potentially explosive atmospheres.

FEATURE CHECK

	CBE			C4E	
	12-20 T & F	25-35	40-50	160-200NL	200-300NV
Truck features					
Adjustable fork width	S	S	S	S	S
Cushion tyres	O	O	O	O	O
High capacity battery models	O	O	-	-	-
Pneumatic tyres	O	O	O	O	O
Superelastic tyres	S	S	S	S	S
Tilting mast	S	S	S	S	S
Twin drive tyres	-	O	O	-	O
Unitary motor/gear-train drive axle	-	S	S	-	S
Controls and instruments					
Drive motor temperature warning	S	S	S	S	S
Electronic controller temperature warning	S	S	S	S	S
Electronic fingertip controls	O	O	O	O	O
Electronic mini-joystick controls	O	O	O	O	O
Hour meter (working hours)	S	S	S	S	S
Hydraulic steering	S	S	S	S	S
Information display	S	S	S	S	S
Lift motor temperature warning	S	S	S	S	S
Sideshift	S	S	O	S	S
Steering direction indicator	S	-	-	S	-
Temporary speed reduction (turtle button)	S	S	S	S	S
Driving features					
Electronic regenerative brakes	S	S	S	S	S
Three performance programmes	S	S	S	S	S
Safety features					
Clear-view mast	S	S	S	S	S
Clear-view overhead guard	S	S	S	S	S
Driver detection system	S	S	S	S	S
Emergency cut-off	S	S	S	S	S
Parking brake	S	S	S	S	S
Programmable performance	S	S	S	S	S
Drivers compartment features					
Adjustable seat with safety belt	S	S	S	S	S
Adjustable steering wheel	S	S	S	S	S
Enclosed cab (with or without heating)	O	O	O	O	O
Maintenance features					
Easy access for maintenance	S	S	S	S	S
Fault diagnosis facility	S	S	S	S	S
Oil-immersed disc brakes	S	S	S	S	S
Battery management features					
Battery change facility	S	S	S	S	S
Battery status indicator	S	S	S	S	S
Battery discharge prevention system	S	S	S	S	S
Sideways battery change	-	-	-	O	O
Special applications					
Coldstore version	O	O	O	O	O
Corrosive environment version	O	O	-	-	-
EEx version (ATEX)	O	O	O	O	O

S = standard O = optional

Cargo range

Model	Capacity (kg)
3-wheel electric trucks	
CBE 12T	1200
CBE 15T	1500
CBE 16T	1600
CBE 18T	1800
CBE 20T	2000
4-wheel compact electric trucks	
C4E160NL	1600
C4E200NL	2000
C4E200NV	2000
C4E300NV	3000
4-wheel electric trucks	
CBE 12F	1200
CBE 15F	1500
CBE 16F	1600
CBE 18F	1800
CBE 20F	2000
CBE 25	2500
CBE 30	3000
CBE 35	3500
CBE 40	4000
CBE 45	4500
CBE 50	5000
4-wheel LPG trucks	
CBG 15	1500
CBG 18	1800
CBG 20	2000
CBG 25	2500
CBG 30	3000
CBG 35	3500
4-wheel diesel trucks	
CBD 15	1500
CBD 18	1800
CBD 20	2000
CBD 25	2500
CBD 30	3000
CBD 35	3500
CBD 40	4000
CBD 45	4500
CBD 50	5000

BT

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

www.bt-forklifts.com

Austria

BT Österreich GmbH
Roseggerstraße 104
A-4614 Marchtrenk
Tel: +43 (0) 7243 533 33-0
Fax: +43 (0) 7243 533 33-9

Finland

Kesko Machinery Ltd
Materials Handling
P.O Box 54
01301 Vantaa
Tel: +358 105320360
Fax: +358 (9) 8574674

Latvia

BT Latvija SIA
11 Dunties Str.
LV-1013 Rīga
Tel: +371 7 364036
Fax: +371 7 364037

Russia

BT Moscow
1st Shchipkovsky pereulok 1
Office 201
RU-113093 Moscow
Tel: +7 095 956 1296
Fax: +7 095 956 1297

Ukraine

DC BT Ukraine Ltd
57, Zaliznychne shose
01103 Kiev
Tel: +380 44 286 6485/6/7
Fax: +380 44 286 6468

Belgium

BT Belgium NV/SA
Fotografielaan 47-49
Industrieterrein Terbekehof
BE-2610 Wilrijk
Tel: +32 (0) 3 820 76 00
Fax: +32 (0) 3 827 05 51

France

BT France S.A.R.L.
4 avenue de l'Europe
Bussy Saint Georges
FR-77607 Marne la Vallée
Cedex 3
Tel: +33 (0) 1 64.77.85.00
Fax: +33 (0) 1 64.77.85.01

Lithuania

BT Lietuva UAB
Kirtimu 45
LT-02244 Vilnius
Tel: +370 52 602577
Fax: +370 52 602578

Russia

BT St Petersburg
7, Avtobusnaya str
RU-197349 St Petersburg
Tel: +7 812 324 6560
Fax: +7 812 303 1530

United Kingdom

BT Rolatruc Ltd
Stirling Road
Slough, Berks
SL1 4SY
Tel: +44 (0) 870 850 1400

Bulgaria

Store- Tech EOOD
1, Krichim Str. fl 4
1407 Sofia
Tel: +359 2 9624720
Fax: +359 2 9624760

Germany

BT Deutschland GmbH
Grovestraße 16
DE-30853 Langenhagen
Tel: +49 (0) 511 72 62 0
Fax: +49 (0) 511 72 62 137

The Netherlands

BT Nederland BV
Frankeneng 55
NL-6716 AA Ede
Tel: +31 (0) 318 660 500
Fax: +31 (0) 318 622 105

Slovakia

BT Slovensko s.r.o.
Galvaniho 10
821 04 Bratislava
Tel: +421 (0) 2 434 29625
Fax: +421 (0) 2 434 23725

NORTH AMERICA

BT has a wide network of distributors operating in North America & Mexico under BT Raymond Inc., and in Canada under G.N. Johnston Equipment Co Ltd.
For details please call:

BT Raymond

Tel: +1 607 656 2311
Fax: +1 607 656 9005

G.N. Johnston

Tel: +1 905 712 6000
Fax: +1 905 712 6002

Cyprus

Lenexa Trading Ltd
5N Pindarou Street
PO Box 24561
Nicosia
Tel: +357 22 345089
Fax: +357 22 715425

Greece

BT Souel S.A.
4 Aristotelous Str.
177 78 Tavros
Tel: +30 2 10 3426126
Fax: +30 2 10 3459746

Norway

BT Norge AS
Industriveien 18
N-1481 Hagan
Tel: +47 67 06 50 00
Fax: +47 67 06 50 01

Slovenia

Gorenje GTI, d.o.o.
Partizanska 12
3320 Velenje
p.p.51
Tel: +386 3 899 1421
Fax: +386 3 899 2607

Czech Republic

BT Česká republika s.r.o.
K Vypichu 1049
252 19 Rudná
Tel: +420 311 651111
Fax: +420 311 651311

Hungary

BT Hungary Kft
Építész utca 28
HU-1116 Budapest
Tel: +36 1 482 9100
Fax: +36 1 206 6313

Poland

BT Polska Sp. z o.o.
ul. Wiejska 4
05-800 Pruszków
Tel: +48 22 753 2000
Fax: +48 22 753 2001

Spain

BT España, S.A.
Poligono Industrial Can Salvatella
Avenida Arrahona, 25. Conjunto C.
08210 Barberá del Vallés.
Tel: (+34) 93 728 38 00
Fax: (+34) 93 728 38 01

Rest of the World

BT also operates in Africa, Asia, Central and South America, Middle East and Oceania.
For details please call:

BT International AB

SE-595 81 Mjölby Sweden
Tel: +46 (0) 142 860 00
Fax: +46 (0) 142 866 21

Denmark

BT Danmark A/S
Industrivej 3
DK-3550 Slangerup
Tel: +45 70 220 260
Fax: +45 70 220 261

Iceland

PON Pétur O. Nikulásson EHF
Melabraut 23
IS-220 Hafnarfjörður
Tel: +354 55 20110
Fax: +354 55 21588

Portugal

Movicargo Movimentacao Ind Lda
Apartado 390
Porto Brandao
2826-801-Caparica
Tel: +351 21 2948910
Fax: +351 212 959287

Sweden

BT Svenska AB
Voltavägen 15
SE-161 84 Bromma
Tel: +46 (0) 8 704 40 00
Fax: +46 (0) 8 704 15 96

Estonia

BT Eesti AS
Betooni 7
11415 Tallinn
Tel: +372 6 06 60 20
Fax: +372 6 06 60 21

Italy

BT CESAB S.r.l.
Via del Lavoro, 93
IT-40033 Casalecchio di Reno BO
Tel: +39 051 61 69 311
Fax: +39 051 61 69 300

Romania

BT International Romania S.r.l.
B-dul Theodor Pallady nr. 51
Sector 3
Bucharest
Tel: +40 21 345 1941
Fax: +40 21 345 3075

Switzerland

BT (Switzerland) AG
Riedackerstrasse 1
CH-8153 Rümliang
Tel: +41 (0) 43 211 20 60
Fax: +41 (0) 43 211 20 61



Handling innovation