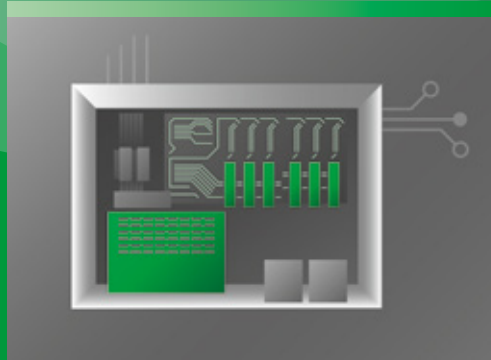




**SIMPLY BeTter**

## WINDOW AUTOMATION

for controlled natural ventilation and RWA



# We are BeTteR

## BTR – Simply BeTteR

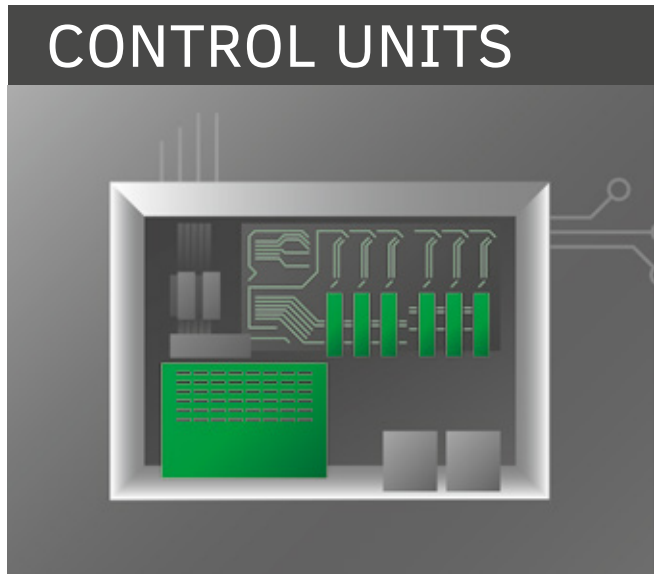
We are a German manufacturer of window automation for controlled natural ventilation and RWA located in Thierhaupten, Bavaria. With over 40 years of experience in the market, we produce high quality products at a fair price, shipped worldwide in no time. Our aim is to make German quality affordable. We deliver from stock to reduce delivery times and ship our products worldwide, wherever a project needs to be implemented. Trusting in BTR products means simply trusting in the BeTteR products.

## RWA

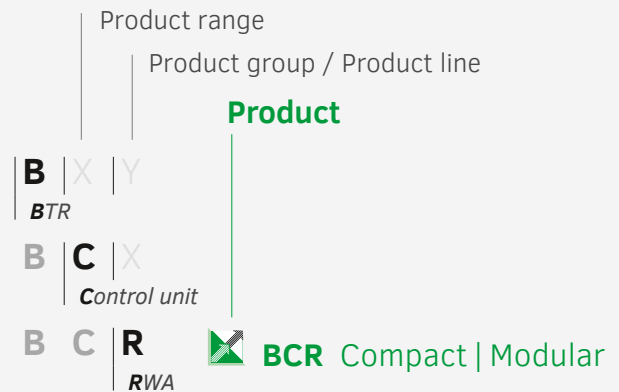
In case of a fire, most people die because of the smoke and not because of the flames. Smoke inhalation causes most fire deaths. Furthermore, smoke blocks the clear sight, hindering a fast flight out of the building and makes firefighting more difficult. Smoke and heat exhaust saves lives and supports firefighters. RWA systems clear toxic smoke by utilising a simple rule of physics: heat rises. By generating ventilation openings through opening windows in the upper building area, hot gases can escape. Openings in the lower floor enables fresh air to enter the building, allowing breathing and a clear sight.

## Natural ventilation

A hygienic air exchange is vital for a healthy and pleasant stay in a room and for effective working, learning or resting. Controlled natural ventilation uses the outside air as a natural resource and enables air exchange automatically. The autonomous system regulates oxygen levels, temperature and humidity to ensure a pleasant room climate. In addition, it protects the building from mould and saves energy costs.

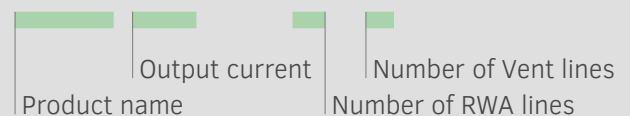


Compact control unit RWA BCR



### Order data (e. g.):

**BCR 8A – 01 02**



# Compact control unit BCR

The compact control unit BCR for smoke and heat exhaust controls any 24 V DC drives. It can be used with batteries for an emergency power supply that lasts 72 hours. Accumulators must be ordered separately.



## Technical Information:

Operating voltage:	230 V AC			
Output voltage:	24 V DC			
Output current:	2 A	4 A	8 A	12 A
Ambient temperature range:	+5 °C ... +40 °C			
Protection rating:	IP30			
Housing:	Surface mounting, steel sheet, RAL 7035 (light grey)			
Dimensions (W × H × D):	316 × 305 × 112 mm			
Connection terminals:	Sensor: 1,5 mm <sup>2</sup> / Motor: 2,5 mm <sup>2</sup> (solid connector)			
Motherboard:	1 RWA group / 1 Vent group		1 RWA group / 2 Vent groups	

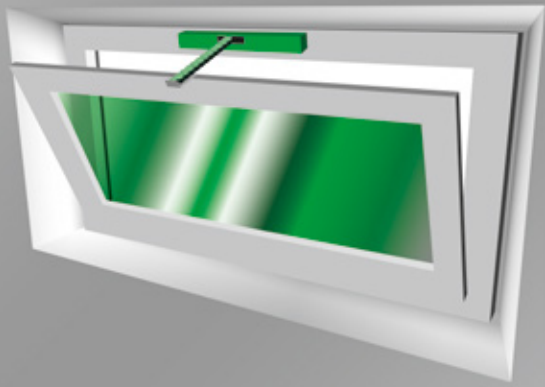
## Control unit

Item-number	60.100	60.101	60.102	60.103
Version	BCR 2A - 0101	BCR 4A - 0101	BCR 8A - 0102	BCR 12A - 0102

## Accessories

Item-number	Version
60.304	Accumulators 2,3 Ah
60.305	Accumulators 7 Ah
60.200	Break – glass unit – grey
60.201	Break – glass unit – red
60.202	Break – glass unit – orange
60.300	Smoke detector
60.301	FAS – fire alarm system-module
60.302	Ventilation button – surface mounting
60.303	Wind and rain sensor set
60.306	End line module

# DRIVES



Chain drive BDC Eco

Chain drive BDC Uni

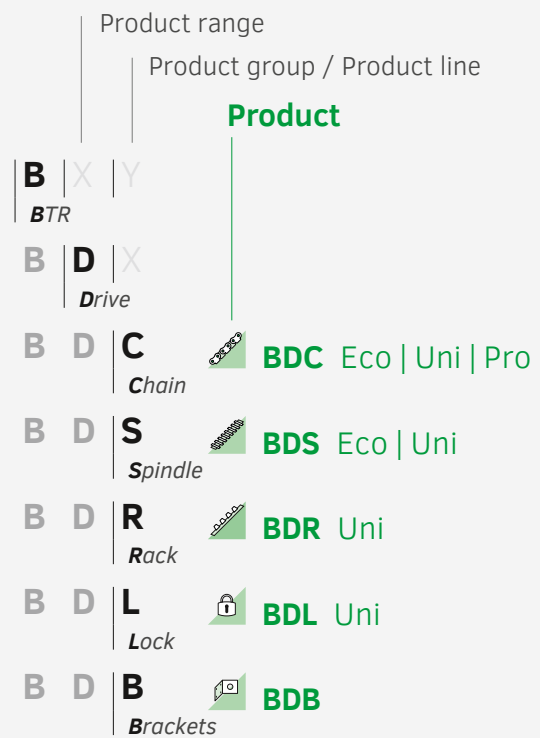
Chain drive BDC Pro

Spindle drive BDS Eco

Spindle drive BDS Uni

Rack drive BDR Uni

Locking drive BDL Uni



Order data (e. g.):

**BDC Uni 300 24 V**

Product name

Stroke

Voltage

## Chain drive BDC Eco

The chain drive BDC Eco takes care of reliable natural ventilation for a pleasant climate in buildings. The force of 300 N allows it to automate windows with ease.



### Technical Information:

U <sub>N</sub>	Rated voltage	24 V DC	<b>230 V AC</b>
I <sub>N</sub>	Rated current	0,8 A	0,13 A
I <sub>A</sub>	Cut-off current	1,0 A	0,2 A
P <sub>N</sub>	Rated power	24 W	25 W
	Protection rating	IP32	IP32
	Ambient temperature range	-5 °C ... +60 °C	-5 °C ... +60 °C
F <sub>Z</sub>	Pulling force max.	300 N	300 N
F <sub>H</sub>	Pullout force max.	300 N	300 N
	Chain	nickel plated steel	nickel plated steel
v	Speed	12.5 mm/s	12.5 mm/s
s	Stroke	100–400 mm (adjustable by switch)	100–400 mm (adjustable by switch)
	Dimensions W × H	60 × 35 mm	60 × 35 mm
L	Length	390 mm	390 mm
	Sound pressure level	≤ 70 dB (A)	≤ 70 dB (A)

### Drive

Item-number	Version	Item-number	Version
10.101	BDC Eco 400 24 V	10.100	BDC Eco 400 <b>230 V</b>

Brackets are included

## Chain drive BDC Uni

The universal chain drive BDC Uni is your drive of choice for natural ventilation. It is quick and easy to mount. Its quiet run allows the use in noise sensitive areas.



### Technical Information:

U <sub>N</sub>	Rated Voltage	24 V DC
I <sub>N</sub>	Rated current	0,8 A
I <sub>A</sub>	Cut-off current	1,0 A
P <sub>N</sub>	Rated power	17 W
	Protection rating	IP20
	Ambient temperature range	-5 °C ... +60 °C
F <sub>Z</sub>	Pulling force max.	200 N
F <sub>A</sub>	Pushing force max.	200 N
F <sub>H</sub>	Pullout force	1.400 N
	Chain	Steel, nickel plated
v	Speed	8,0 mm/s
s	Stroke	300 mm
	Dimensions W × H	42 × 30 mm
L	Length	432 mm
	Sound pressure level	≤ 70 dB (A)

### Drive

Item-number	Version
10.200	BDC Uni 300 24 V silver
10.201	BDC Uni 300 24 V white

### Brackets

Application	Item-number	Version
Drive mounting on the frame of inward opening windows (sash > 600mm)	10.250	BDB 101
Drive mounting on the sash of inward opening windows OR mounting on the frame of outward opening windows	10.251	BDB 102
Drive mounting on the frame of inward opening windows – for swivell fixing (sash < 600mm)	10.252	BDB 103

### Possible drive sets



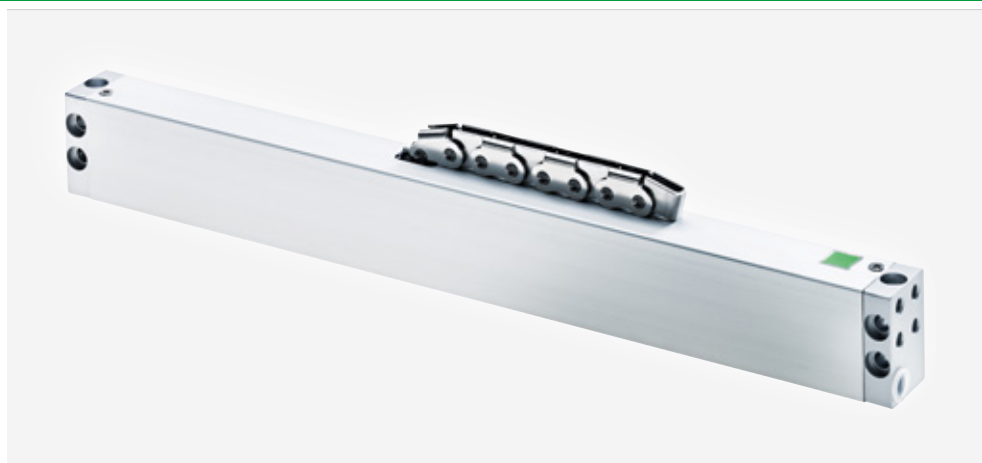
2 × BDC Uni

1 × BDC Uni  
1 × BDL Uni

2 × BDC Uni  
1 × BDL Uni

## Chain drive BDC Pro

The versatile chain drive BDC Pro may be used for controlled natural ventilation and natural smoke and heat exhaust ventilation (RWA). Its small dimensions allow a broad field of use.



### Technical Information:

U <sub>N</sub>	Rated Voltage	24 V DC	<b>230 V AC</b>
I <sub>N</sub>	Rated current	0,7 A	0,13 A
I <sub>A</sub>	Cut-off current	1,0 A	0,2 A
P <sub>N</sub>	Rated power	17 W	30 W
	Protection rating	IP32	IP32
	Ambient temperature range	-5 °C ... +60 °C	-5 °C ... +60 °C
F <sub>Z</sub>	Pulling force max.	250 N	250 N
F <sub>H</sub>	Pullout force	1.800 N	1.800 N
	Chain	Stainless steel	Stainless steel
v	Speed	Stroke 400 8 mm/s Stroke 600 12 mm/s Stroke 800 13,5 mm/s	Stroke 400 8 mm/s Stroke 600 8 mm/s Stroke 800 8 mm/s
s	Stroke	400 mm, 600 mm, 800 mm	400 mm, 600 mm, 800 mm
	Dimensions W × H	26 × 41 mm	26 × 41 mm
L	Length	430 – 625 mm	570 – 765 mm
	Sound pressure level	≤ 70 dB (A)	≤ 70 dB (A)
	Version	Right	Right

### Drive

Item-number	Version	Item-number	Version
10.300	BDC Pro 400 24 V	10.303	BDC Pro 400 <b>230 V</b>
10.301	BDC Pro 600 24 V	10.304	BDC Pro 600 <b>230 V</b>
10.302	BDC Pro 800 24 V	10.305	BDC Pro 800 <b>230 V</b>

### Brackets

Application	Part.-No.	Version
Drive mounting on the frame of inward opening windows	10.250	BDB 101
Drive mounting on the sash of inward opening windows OR mounting on the frame of outward opening windows	10.350	BDB 104

### Possible drive sets



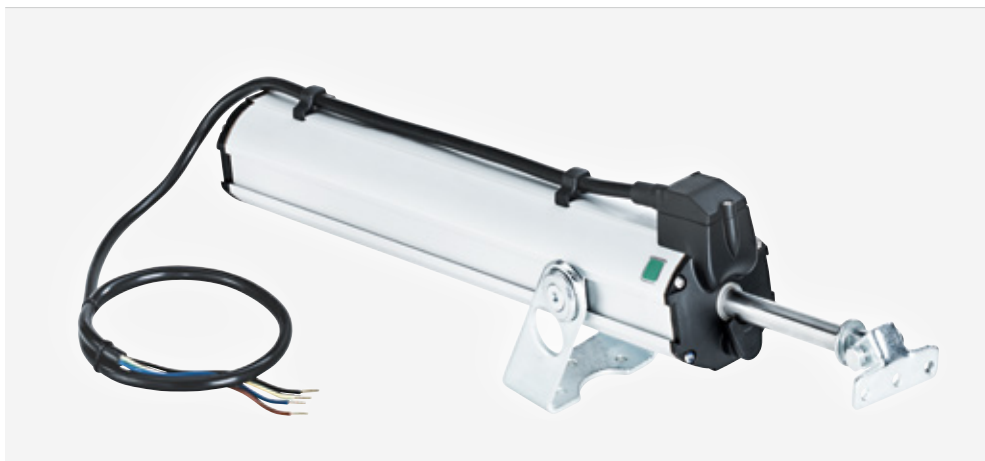
2 × BDC Pro

1 × BDC Pro  
1 × BDL Uni

2 × BDC Pro  
1 × BDL Uni

## Spindle drive BDS Eco

The sturdy spindle drive BDS Eco is our allrounder when it comes to roof windows. Its force of 500 N allows its use in light domes and skylights.



### Technical Information:

U <sub>N</sub>	Rated Voltage	<b>230 V AC</b>
I <sub>N</sub>	Rated current	0,12 A
I <sub>A</sub>	Cut-off current	0,8 A
P <sub>N</sub>	Rated power	5 W
	Protection rating	IP55
	Ambient temperature range	-10 °C ... +60 °C
F <sub>Z</sub>	Pulling force max.	500 N
F <sub>H</sub>	Pullout force	3.000 N
	Spindle	Aluminium
v	Speed	7 mm/s
s	Stroke	300 mm
	Dimensions W × H	63,5 × 80 mm
L	Length	419 mm
	Sound pressure level	≤ 70 dB (A)

### Drive

Item-number	Version
20.100	BDS Eco 300 230 V

Brackets are included

## Spindle drive BDS Uni

The strong spindle drive BDS Uni may be used universally for natural ventilation and smoke and heat exhausting system (RWA) in the roof area due to its force of 800 N.



### Technical Information:

U <sub>N</sub>	Rated Voltage	24 V DC	<b>230 V AC</b>
I <sub>N</sub>	Rated current	0,8 A	0,12 A
I <sub>A</sub>	Cut-off current	1,0 A	0,2 A
P <sub>N</sub>	Rated power	20 W	5 W
	Protection rating	IP54	IP54
	Ambient temperature range	-5 °C ... +60 °C	-5 °C ... +60 °C
F <sub>Z</sub>	Pulling force max.	800 N	800 N
F <sub>H</sub>	Pullout force	3.000 N	3.000 N
	Spindle	Aluminium	Aluminium
v	Speed	7,0 mm/s	7,0 mm/s
s	Stroke	300 mm, 500 mm, 700 mm	300 mm, 500 mm, 700 mm
	Dimensions W × H	76 × 43 mm	76 × 43 mm
L	Length	490–940 mm	490–940 mm
	Sound pressure level	≤ 70 dB (A)	≤ 70 dB (A)

### Drive

Item-number	Version	Item-number	Version
20.200	BDS Uni 300 24 V	20.201	BDS Uni 300 <b>230 V</b>
20.202	BDS Uni 500 24 V	20.203	BDS Uni 500 <b>230 V</b>
20.204	BDS Uni 750 24 V	20.205	BDS Uni 750 <b>230 V</b>

### Brackets

Application	Item-number	Version
Drive mounting on the frame of outward opening windows – for swivell fixing	20.250	BDB 105
Drive mounting on the frame of outward opening windows – for swivell fixing	20.251	BDB 106

## Rack drive BDR Uni

The powerful rack drive BDR Uni is very easy to install. It meets high standards of quality and may be used both for natural ventilation and smoke and heat exhaust (RWA).



### Technical Information:

U <sub>N</sub>	Rated Voltage	24 V DC
I <sub>N</sub>	Rated current	0,6 A
I <sub>A</sub>	Cut-off current	0,8 A
P <sub>N</sub>	Rated power	15 W
	Protection rating	IP54
	Ambient temperature range	-5 °C ... +60 °C
F <sub>Z</sub>	Pulling force max.	550 N
F <sub>H</sub>	Pullout force	3.000 N
	Spindle	Steel, chromated
v	Speed	6,0 mm/s
s	Stroke	100 – 1000 mm
	Dimensions W × H	113,5 × 30 mm
L	Length	263 – 1163 mm
	Sound pressure level	≤ 70 dB (A)

### Drive

Item-number	Version
30.200	BDR Uni 100 24 V
30.201	BDR Uni 200 24 V
30.202	BDR Uni 300 24 V
30.203	BDR Uni 400 24 V
30.204	BDR Uni 500 24 V
30.205	BDR Uni 600 24 V
30.206	BDR Uni 750 24 V
30.207	BDR Uni 1000 24 V

### Brackets

Application	Item-number	Version
Drive mounting on the frame of outward opening windows	30.250	BDB 107
Drive mounting on the frame of outward opening windows	30.251	BDB 108

## Locking drive BDL Uni

The locking drive BDL Uni may be used combined with BDC Uni and BDC Pro to lock windows tightly. It is easy to install and the running direction can be set.



### Technical Information:

U <sub>N</sub>	Rated Voltage	24 V DC
I <sub>N</sub>	Rated current	0,6 A
I <sub>A</sub>	Cut-off current	~ 1,0 A
P <sub>N</sub>	Rated power	15 W
	Protection rating	IP32
	Ambient temperature range	-5 °C ... +60 °C
F <sub>A</sub>	Pushing force max.	~ 600 N
F <sub>L</sub>	Breakout force max.	~ 1.000 N
F <sub>H</sub>	Pullout force max.	1.500 N
t	Running time	5,0 s
s	Stroke	18 mm (± 1)
	Coupling adapter	Stainless steel
	Housing	Aluminium (E6/C-0)
	Dimensions W × H	26 × 26 mm
L	Length	415 mm
	Sound pressure level	≤ 70 dB (A)

### Drive

Item-number	Version
40.200	BDL Uni

### Brackets

Application	Item-number	Version
Drive mounting on the frame of outward opening windows OR mounting on the sash of inward opening windows	40.250	BDB 109
Drive mounting on the frame of inward opening windows	40.251	BDB 110
Drive mounting on the frame of inward opening windows	40.252	BDB 111
One-Point Locking device mounting on the frame of inward opening windows	40.253	BDB 112

### Possible drive sets



1 × BDC Uni/BDC Pro  
1 × BDL Uni



2 × BDC Uni/BDC Pro  
1 × BDL Uni



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