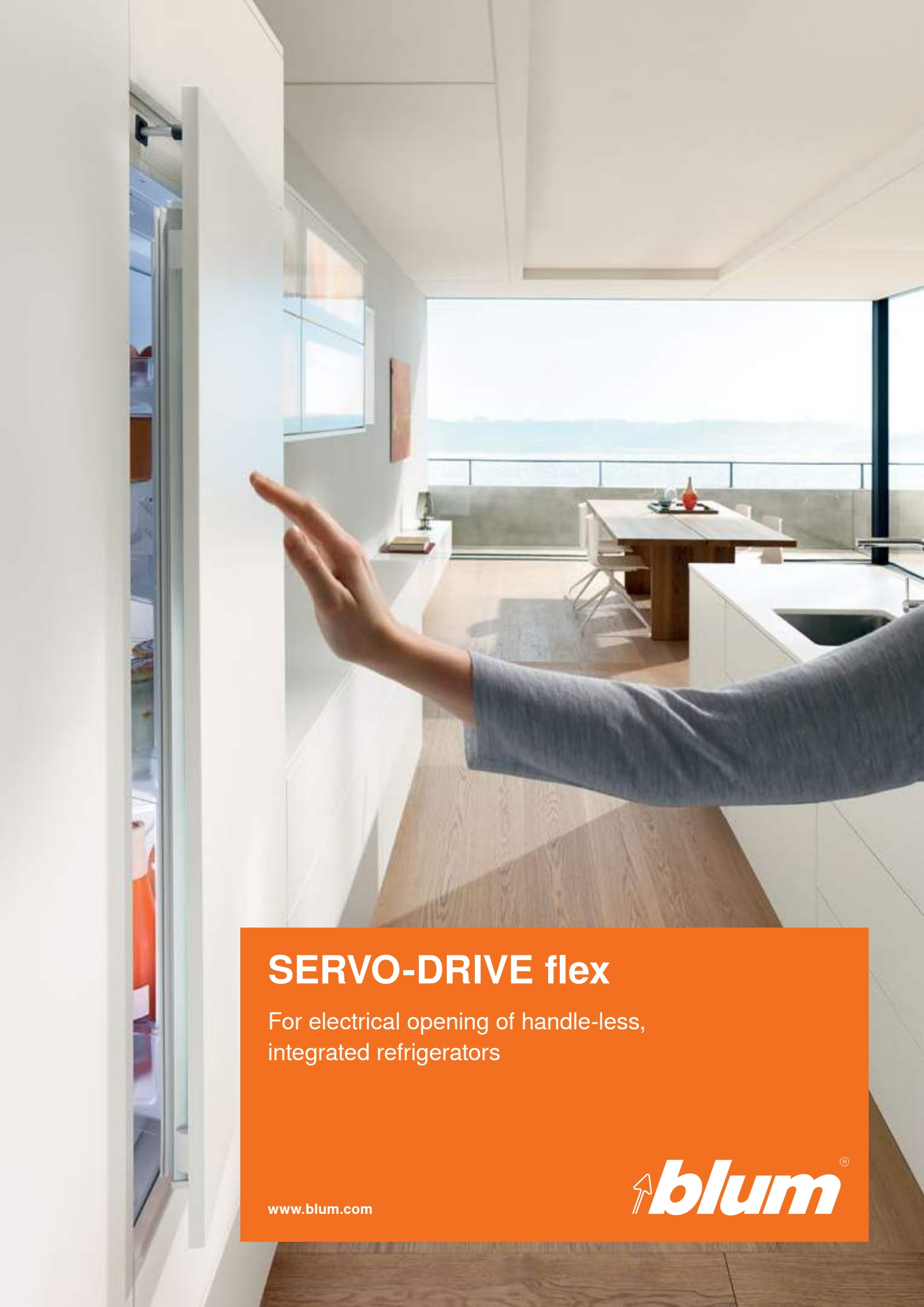


SERVO-DRIVE flex

For electrical opening of handle-less, integrated refrigerators

www.blum.com

blum®

Entirely handle-less kitchen design

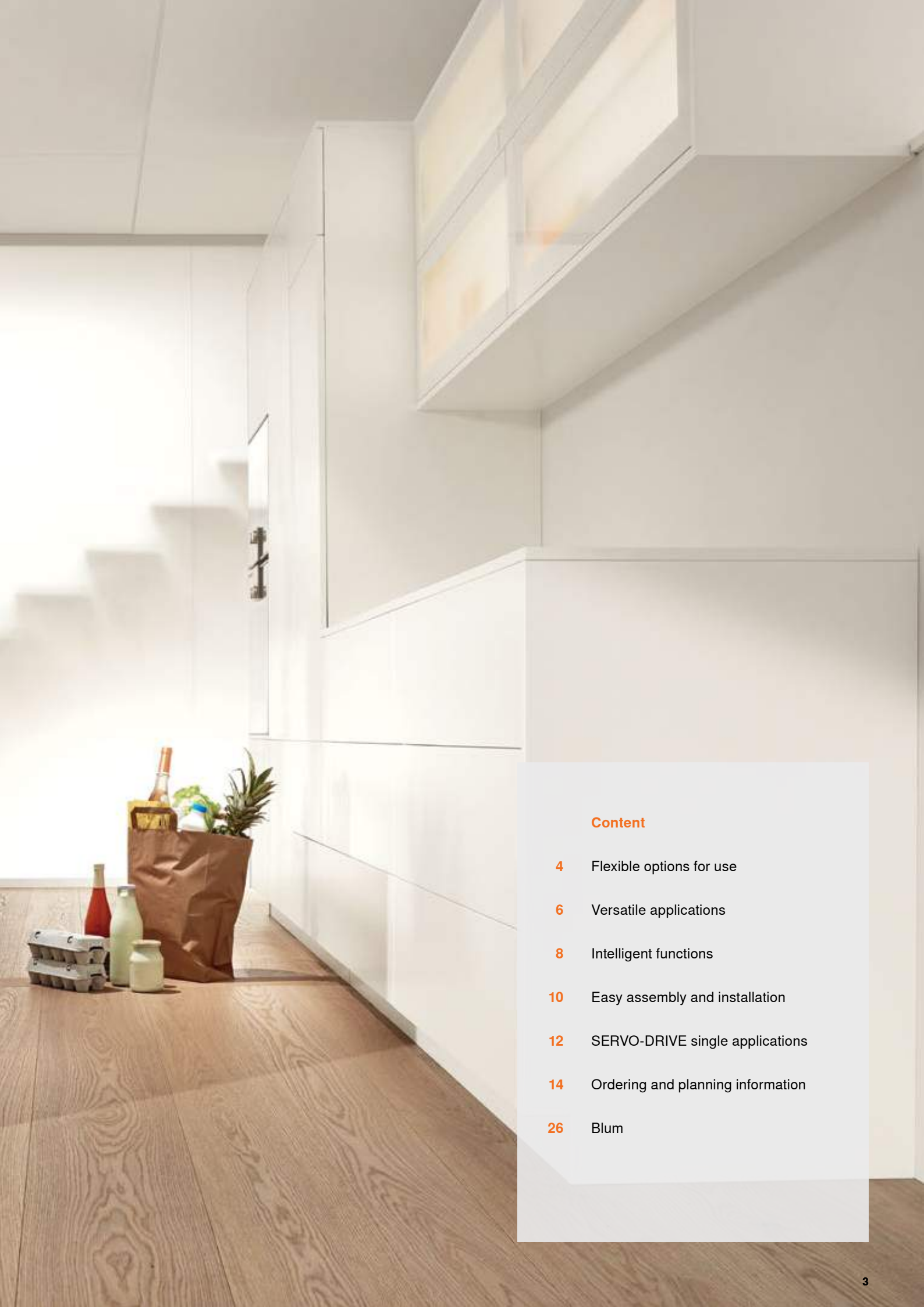
In kitchens with minimalist, handle-less designs, integrated refrigerators, freezers and dishwashers can too now disappear stylishly behind furniture fronts. The SERVO-DRIVE flex electrical opening support system ensures easy opening.

www.blum.com/sdflex

blum

GERMAN DESIGN AWARD SPECIAL 2016

ICONIC AWARDS 2016 INTERIOR INNOVATION winner



Content

4 Flexible options for use

6 Versatile applications

8 Intelligent functions

10 Easy assembly and installation

12 SERVO-DRIVE single applications

14 Ordering and planning information

26 Blum

Flexible options for use

Left or right opening, sliding or fixed door – regardless of the installation situation, SERVO-DRIVE flex can be used with standard integrated refrigerators, combination fridge/freezers, freezers and dishwashers.

Versatile applications

Various installation situations can be implemented with the SERVO-DRIVE flex electrical opening support system. The drive unit is suitable for various applications.

Each door in the combination fridge/freezer is fitted with a separate SERVO-DRIVE flex unit and can therefore be opened individually.

Large and heavy doors, e.g. freezer doors, open with two synchronised drive units reliably and at the same time.

For refrigerators, an optional wireless switch can be used to expand the trigger range on the front. Whichever part of the front is pressed, opening the door is always convenient.

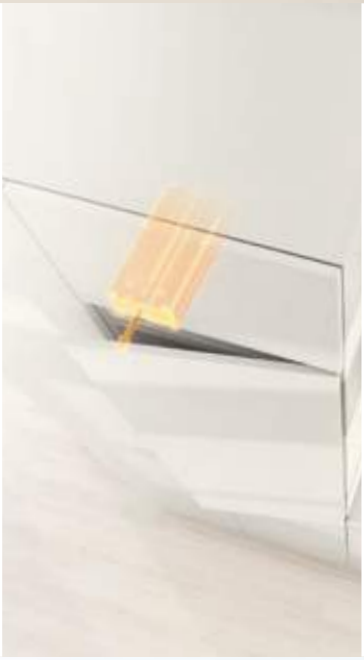
If SERVO-DRIVE flex is used with integrated dishwashers, the drive unit is mounted in the centre of the installation recess.

Intelligent functions

SERVO-DRIVE flex is a well-conceived system which is designed specifically to suit the demands of everyday kitchen use. Thanks to the intelligent functions, handle-less integrated devices can be operated easily and conveniently.

Lean protection
SERVO-DRIVE flex differentiates between short pressing actions and longer leaning actions. The lean protection prevents accidental triggering of the opening support system.

Adaptive system
SERVO-DRIVE flex can be adapted to suit the door properties. This means the access gap is always the same size and the door can be opened reliably.



Automatic self-closing system
If the door is not fully opened after triggering the opening support system, the magnetic rod pulls the front shut again. This ensures that the door does not remain open accidentally.

Trigger safety
After opening, the rod retracts into the drive unit. The user's working area remains free because the opening function is not triggered again until pressure is applied to the front.

Easy assembly and installation

SERVO-DRIVE flex is mounted easily and conveniently in just a few steps.
If the drive unit needs to be accessed subsequently, the front of the installation recess can simply be unclipped.

Attach mounting plate

Start by screwing in a mounting plate to both the left-hand and right-hand sides in the installation recess.

Clip on drive unit

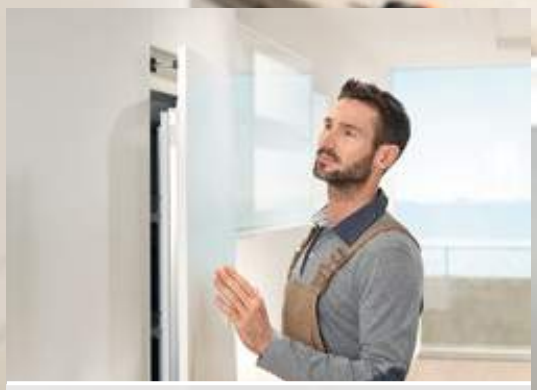
The drive unit can be clipped onto the left or right mounting plate, depending on the door opening.

Connect power supply

The cabled SERVO-DRIVE flex unit is connected to the power supply.

Mount the front

The front can be clipped directly onto the mounting plates which have already been installed when the unit was mounted.



Synchronise the drive unit

During the reference run, the drive unit adjusts itself to the installation situation. SERVO-DRIVE flex is now ready for use.

View assembly film
www.blum.com/
sdflex_videos

Other single applications for SERVO-DRIVE

In addition to SERVO-DRIVE flex, other single applications exist for the tried-and-tested easy-to-use SERVO-DRIVE system. For example, waste bin pull-outs or individual lift systems in wall cabinets can be fitted with an electrical system.

www.blum.com/singleapplications

SERVO-DRIVE uno for waste bin pull-outs

Use your hip, knee or foot – a short press on the front is all it takes and the pull-out opens automatically. SERVO-DRIVE uno for waste bin pull-outs is a convenient retrofitting solution and can be mounted in just a few simple steps.

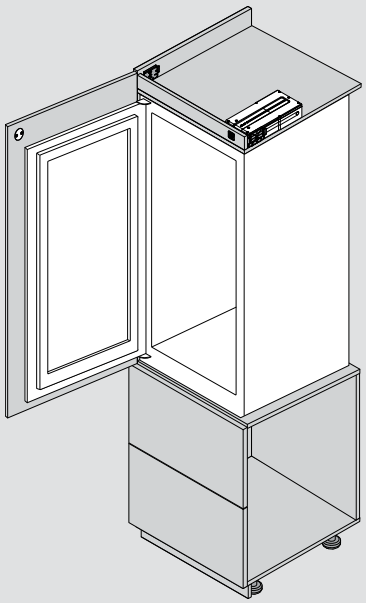
SERVO-DRIVE uno for AVENTOS

If just one lift system is to be fitted with an electrical system, SERVO-DRIVE uno for AVENTOS is the ideal motion support system for the wall cabinet. Individual lift systems can be opened with a light touch and closed silently and effortlessly with BLUMOTION.

SERVO-DRIVE flex

Order specification

Refrigerator – NH ≤ 1780 mm*
Freezer – NH < 1780 mm

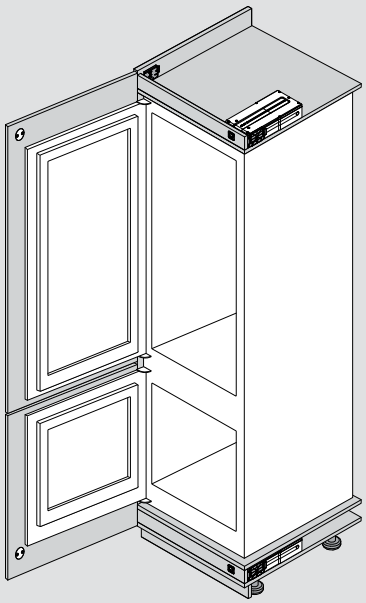


1 x SERVO-DRIVE flex set

Freezer – NH ≥ 1780 mm

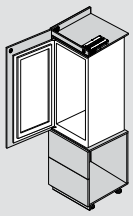
2 x SERVO-DRIVE flex set

Fridge/freezer combination

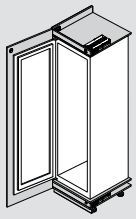


2 x SERVO-DRIVE flex set

* Refrigerators with reinforced magnetic sealing lips and therefore higher closing force may require a second drive unit.
A trial application is recommended.

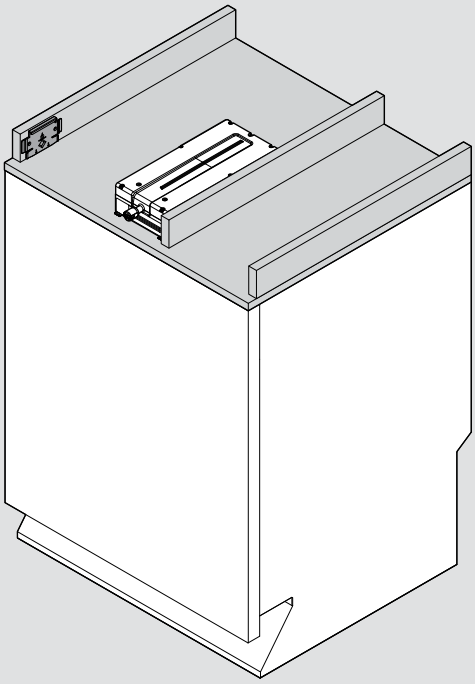


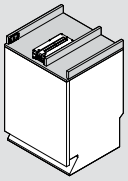
Ordering for one unit		
SERVO-DRIVE flex set	1x	Z10C500A
Blum 12W plug-in transformer (see table on page 16)	1x	☎ Z10NA30(xy)F



Ordering for two units		
SERVO-DRIVE flex set	2x	Z10C500A
Blum 24W transformer (application for more than one unit, see table on page 16)	1x	Z10NE030x
Flex (see table on page 16)		Z10M200x
Transformer unit housing for cabinet underside fixing	1x	Z10NG000
Alternative: transformer unit housing for panel fixing	1x	Z10NG120
Synchronisation cable 300 cm, R7035 light grey (only for freezers with a height of 178 cm)		Z10K300A
Connecting node (1x), Cable end protector (2x)		Z10V100E.01
Black distribution cable for cutting to size		Z10K300A
Cable holder		Z10K0009
Recommended for the fridge/freezer combination:		
SERVO-DRIVE switch		21P5020
Wireless receiver		Z10C5007

Dishwasher

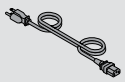


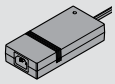
	Ordering for dishwashers		
			
	SERVO-DRIVE flex set drive unit	1 x	Z10C500A
	Blum 12W plug-in transformer (see table on page 16)	1 x	☎ Z10NA30(xy)F
	Additional mounting plate for use with dishwashers	1 x	Z10C5005

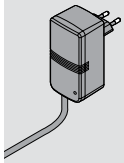
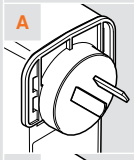
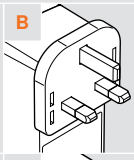
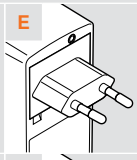
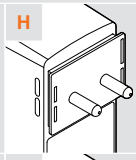
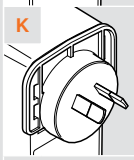
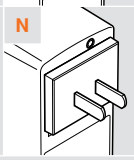
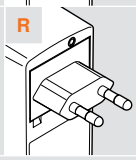
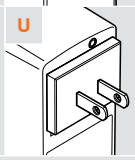
NH Recess height
BS Front thickness
SWD Side panel thickness

APL-UK Bottom edge of work tops
APÜ Protrusion of work tops

Order specification

	Flex		
	Countries		
	Flex Europe	10 pieces	Z10M200E
	Flex CH	10 pieces	Z10M200C
	Flex US, CA	10 pieces	Z10M200U
	Flex JP	10 pieces	Z10M200J
	Flex BR	10 pieces	☎ Z10M200S.01
	Flex UK	10 pieces	Z10M200B
	Flex DK	10 pieces	Z10M200D
	Flex IL	10 pieces	Z10M200I
	Flex AU	10 pieces	Z10M200K
	Flex CN	10 pieces	Z10M200N
	Flex AR	10 pieces	Z10M200A
	Flex IN	10 pieces	☎ Z10M200H
	Flex CL	10 pieces	Z10M200L
	Flex TW	10 pieces	Z10M200T
	Flex ZA	10 pieces	Z10M200Z
	Flex Europe without plug	10 pieces	Z10M200E.OS

	Blum transformer	
	24W	
	Language packages – assembly and instruction leaflet	
	DE, EN, FR, IT, NL	Z10NE030A
	DA, EN, FI, NO, SV	Z10NE030B
	EL, EN, HR, SL, SR, TR	Z10NE030C
	EN, ES, FR, IT, PT	Z10NE030D
	CS, HU, SK, PL	Z10NE030E
	BG, ET, LT, LV, RO, RU	Z10NE030F
	EN, ES, FR, (US, CA)	Z10NE030G
	EN, ZH	Z10NE030H
	Only 1 Blum transformer permitted per distribution cable!	

	Blum 12W plug-in transformer			
	including flex (1120 mm)			
	Network adapter (x)*			
	A 	B 	E 	H 
	K 	N 	R 	U 
	Language package (y)			
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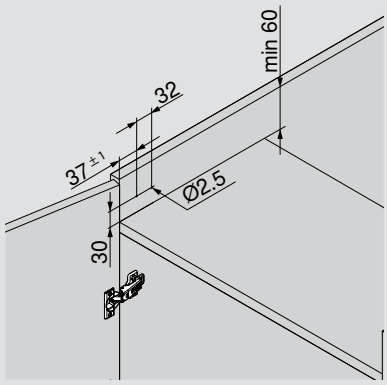
	B	DA, EN, FI, NO, SV	F	BG, ET, LT, LV, RO, RU
	C	EL, EN, HR, SL, SR, TR	G	EN, ES, FR
	D	EN, ES, FR, IT, PT	H	EN, ZH
	Z10NA30(xy)F			

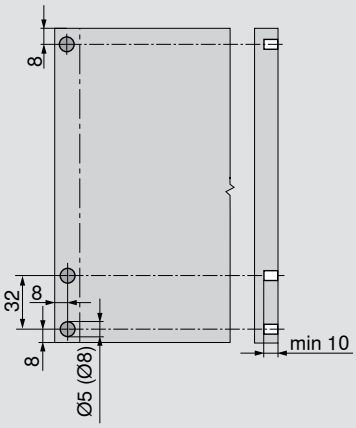
* Not permitted for more than one drive unit!

	SERVO-DRIVE switch	21P5020
	Wireless receiver	Z10C5007

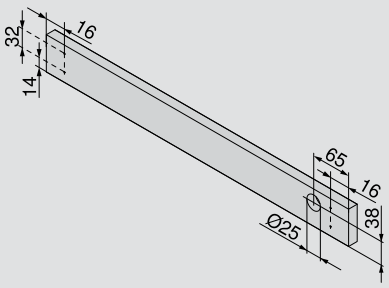
Preparation/drilling



Drilling for mounting plate

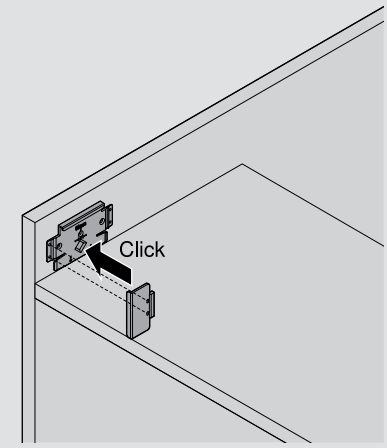


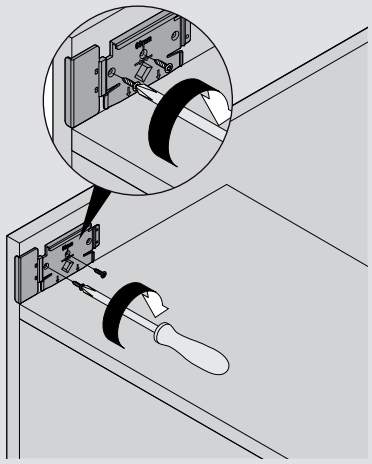
Drilling front for bumper

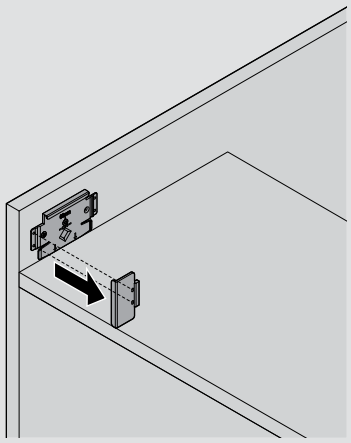


Drilling front

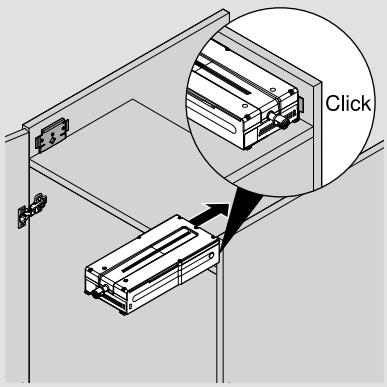
Assembly using assembly jig

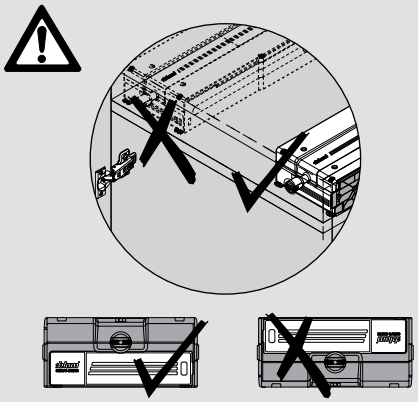






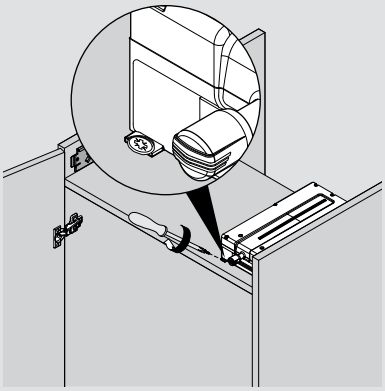
Drive unit assembly





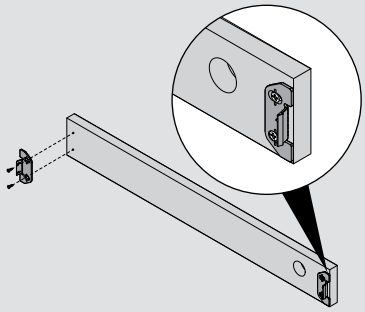
Important notes!

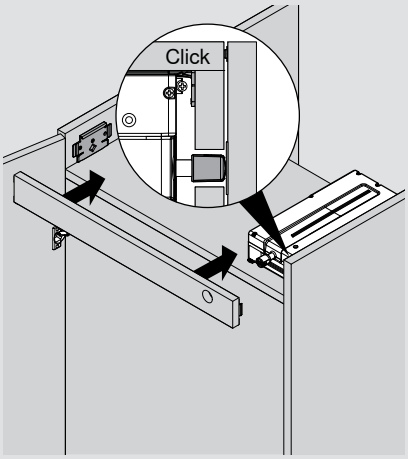
Transportation lock

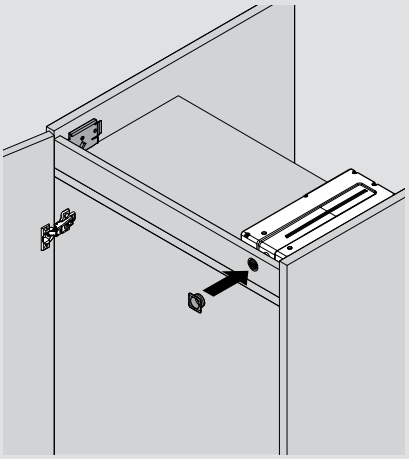


Assembly for refrigerators and freezers

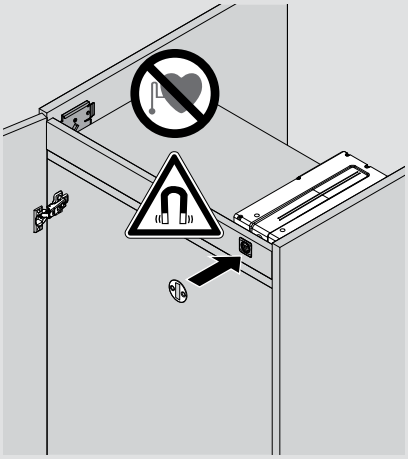
Front assembly

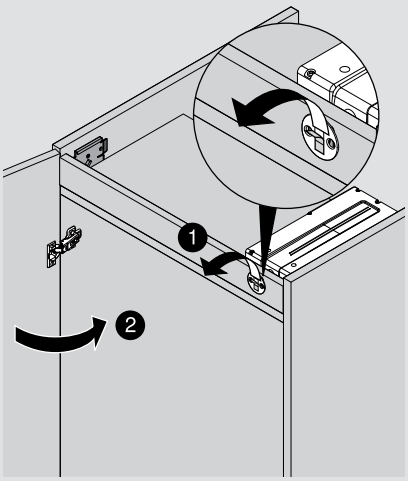


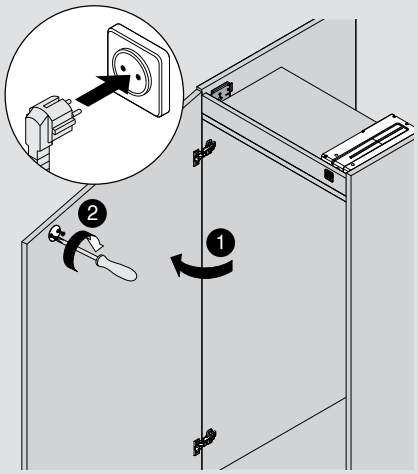




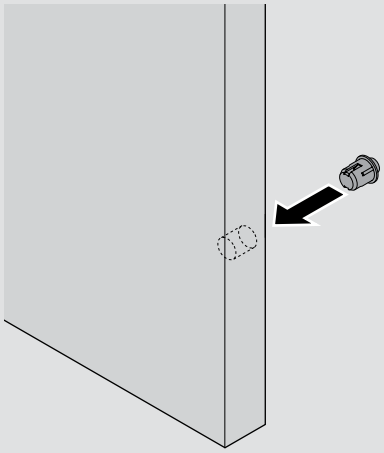
Catch plate assembly



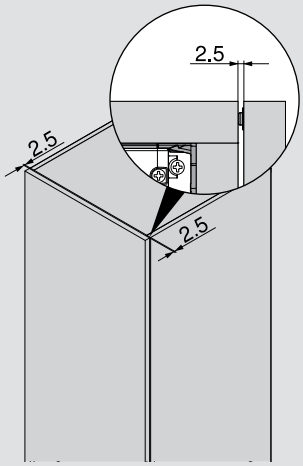




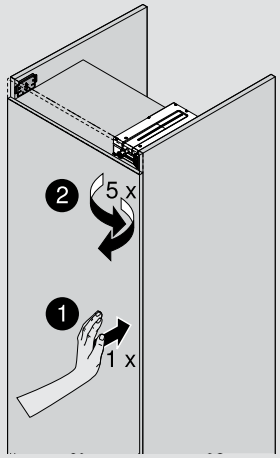
Assemble bumper



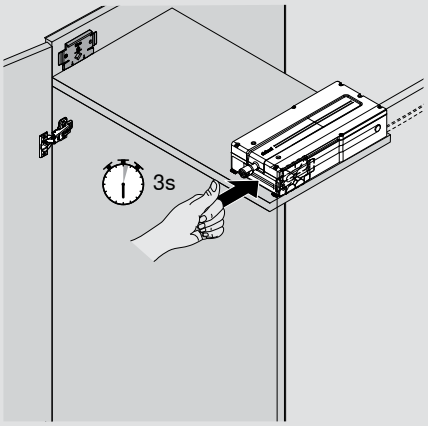
Adjust front gap

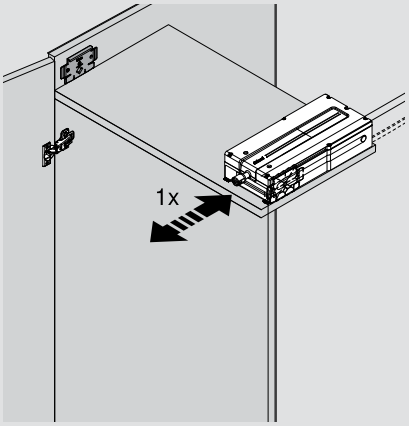


Reference run for start-up

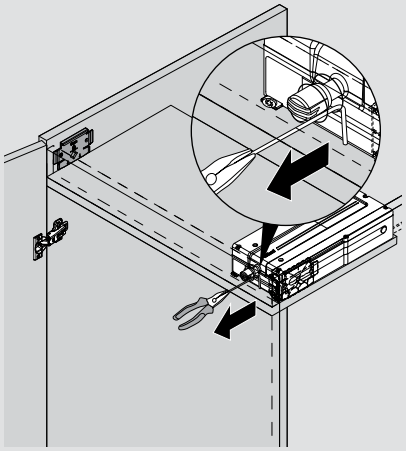


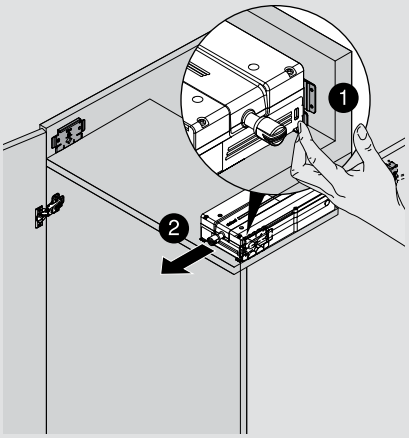
Reset SERVO-DRIVE unit





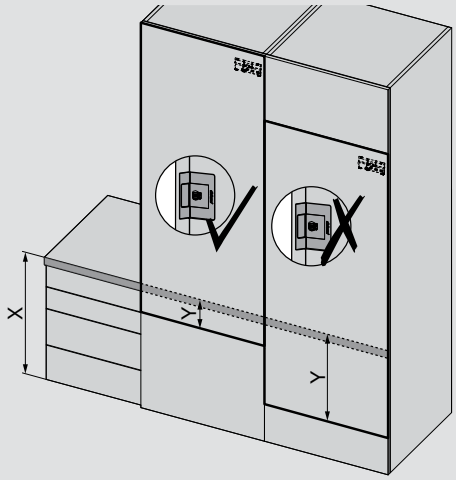
Removal

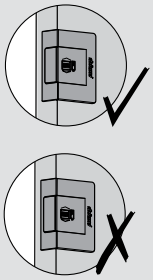




Wireless switch assembly (optional)

Recommendation for using wireless switch



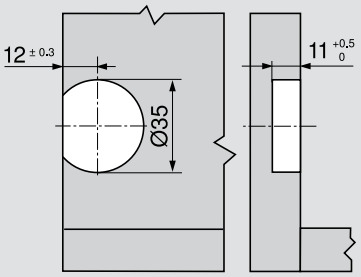


y ≤ 200 mm

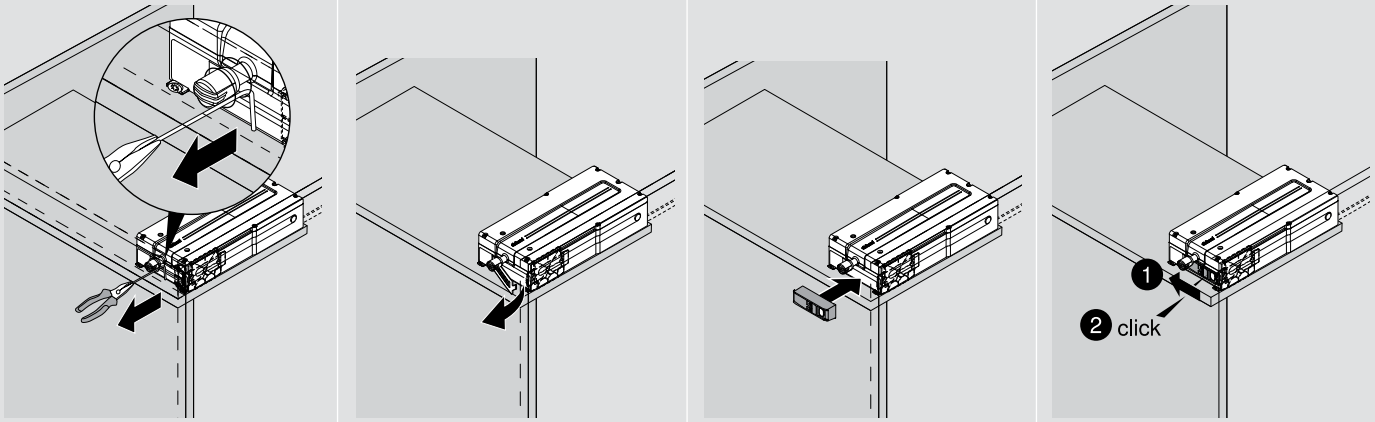
y > 200 mm

x = Work top height

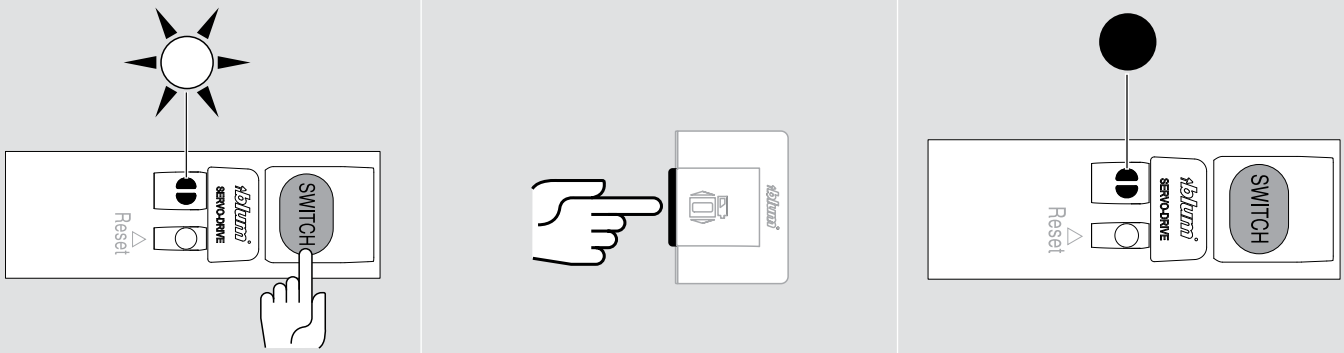
Wireless switch assembly



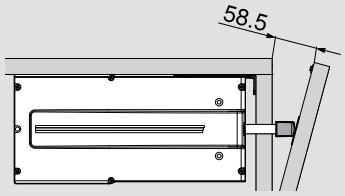
Wireless receiver assembly

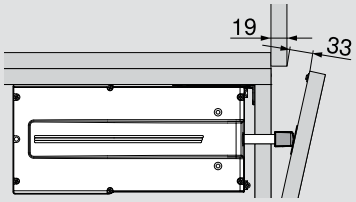


Wireless switch activation



Access gap – measurements

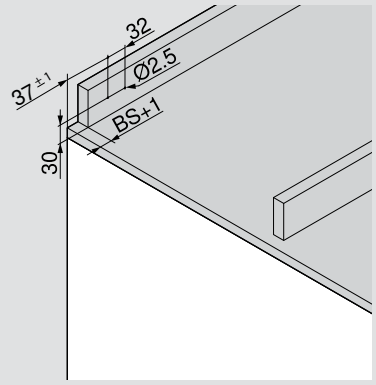




General notes

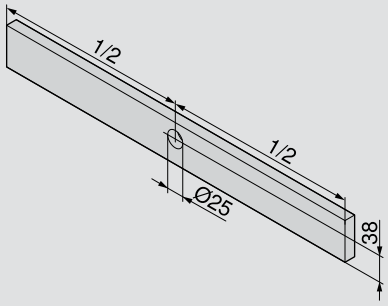
If the door of the device is left open for a relatively long time, for example when putting away shopping, negative pressure may be created inside the refrigerator or freezer after it has been closed. This may result in it not being possible to open the door of the device for a few seconds. This negative pressure normally disappears after a short amount of time and the opening function becomes fully operational once again.

Preparation/drilling

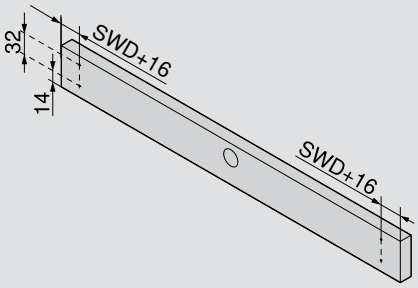


Drilling for mounting plate

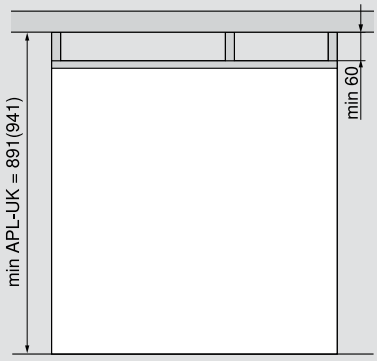
BS 16–19 mm

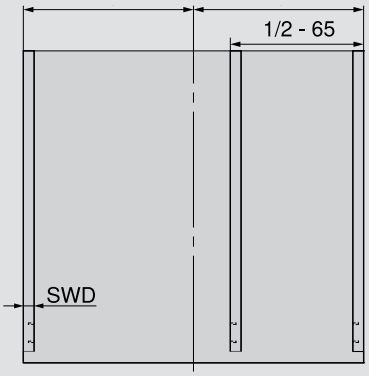


Drilling front

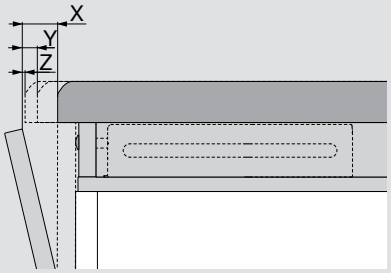


Drive unit planning



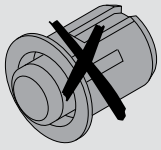


Access given protrusion of work tops



X	30 mm	APÜ	0 mm
Y	10 mm	APÜ	20 mm
Z	0 mm	APÜ	30 mm

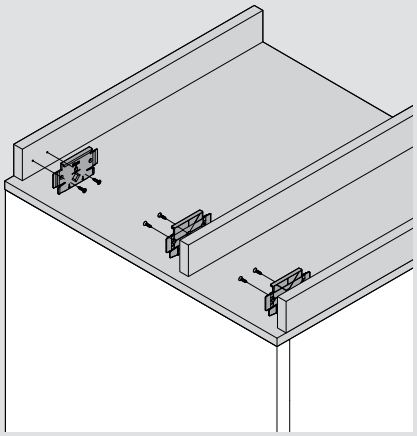
Front assembly – do not assemble bumpers

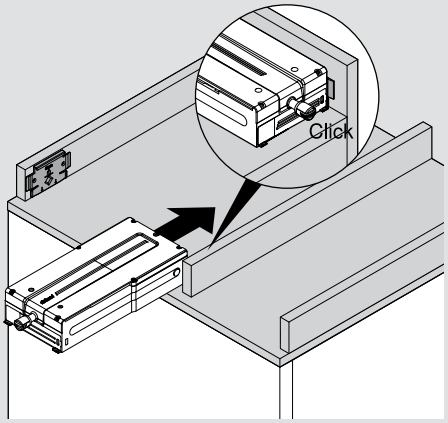


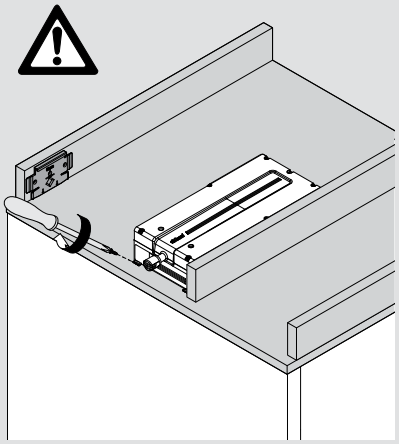
Bumpers must not be installed in dishwashers that have SERVO-DRIVE flex.

NH Recess height
BS Front thickness
SWD Side panel thickness
APL-UK Bottom edge of work tops
APÜ Protrusion of work tops

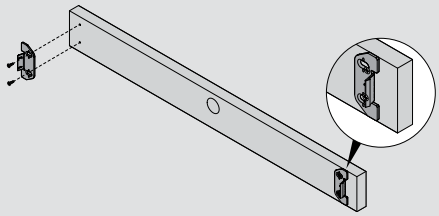
Drive unit assembly

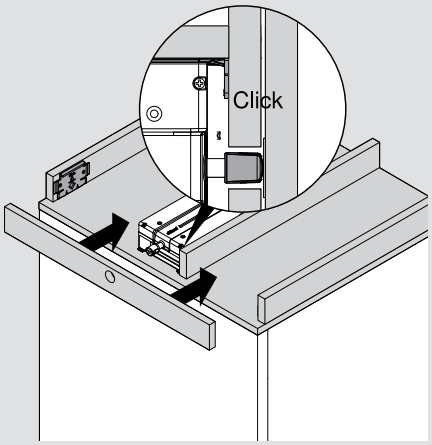


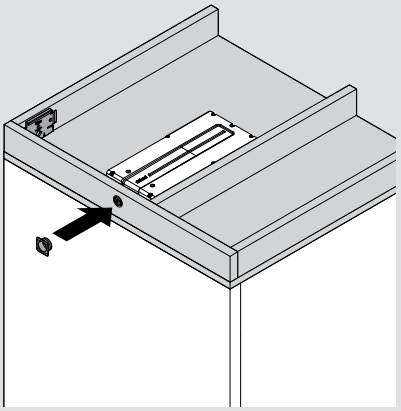




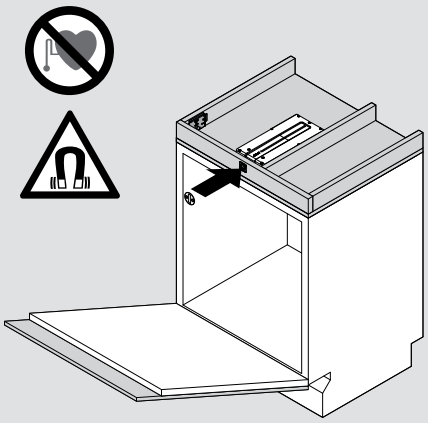
Front assembly

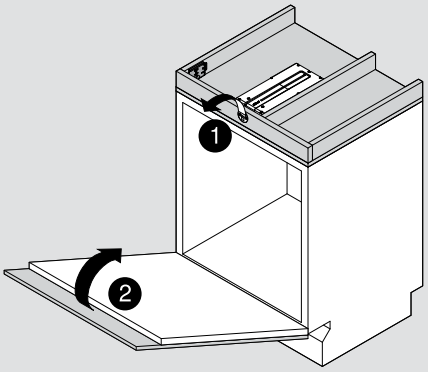


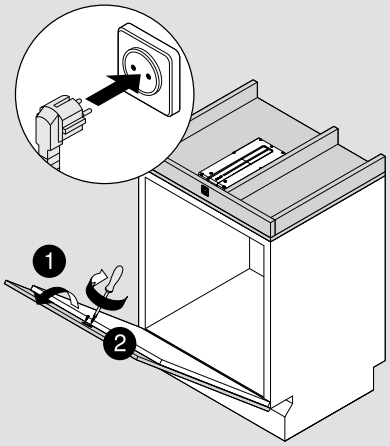




Catch plate assembly

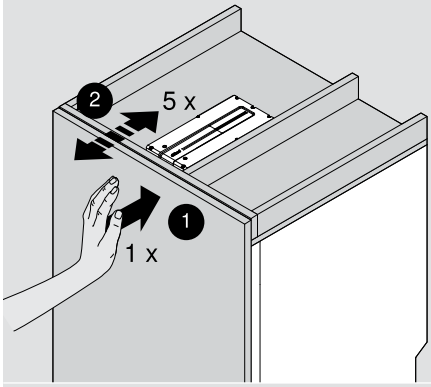






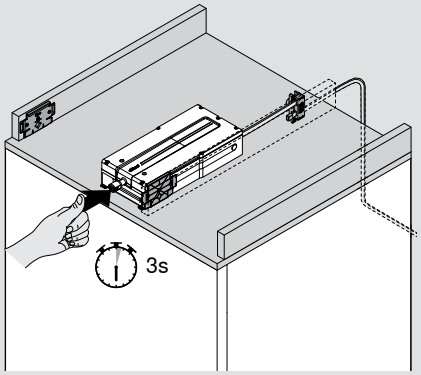
Dishwasher removal / cabling

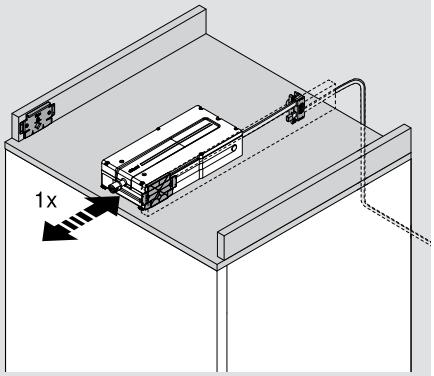
Reference run



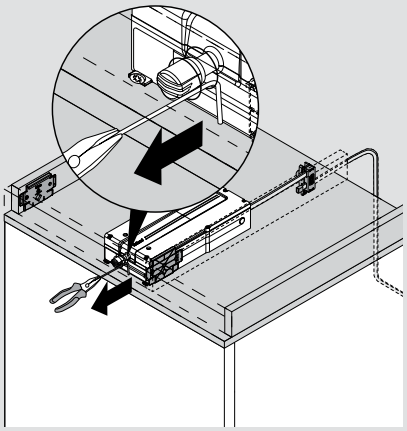
The front must be closed manually.

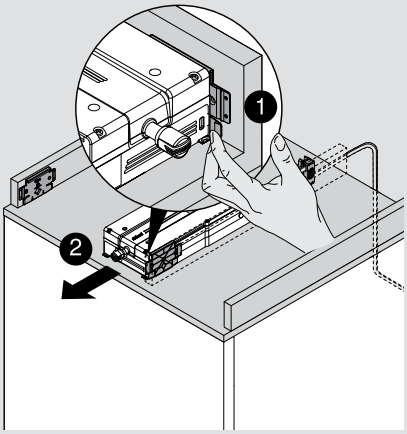
Reset SERVO-DRIVE unit



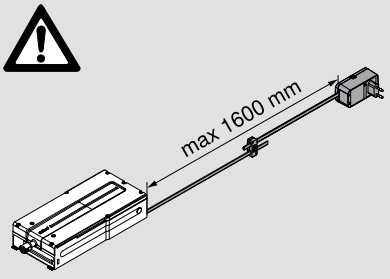


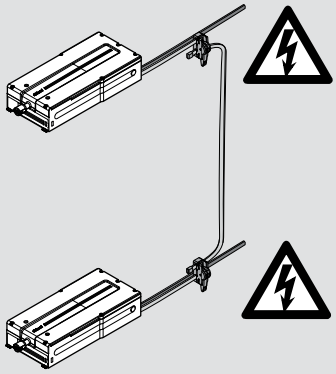
Removal





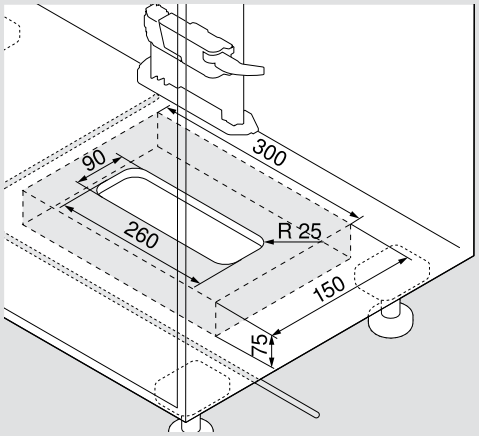
Cabling/information



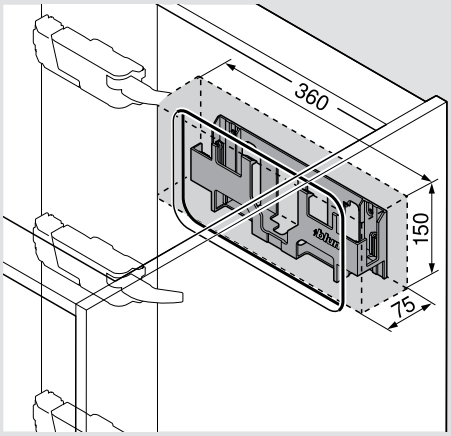


Black = power supply
Light grey R7035 = communication
(synchronisation cable)

Space requirement + safety distance for transformer unit housing



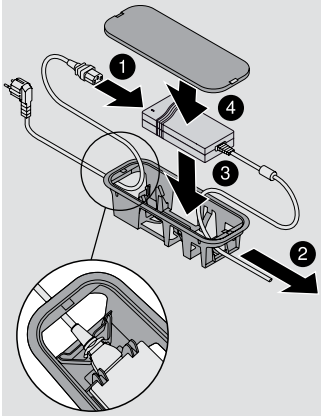
Base mounting



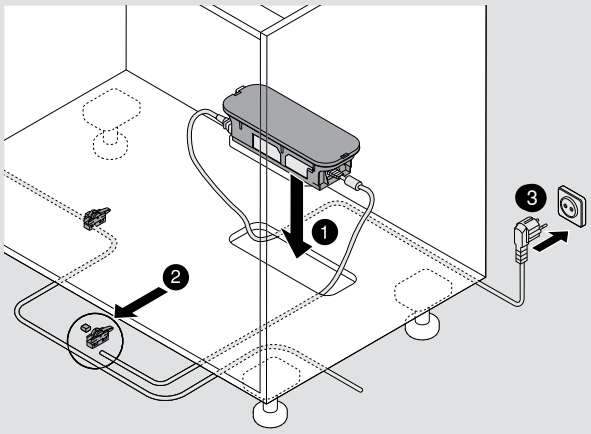
Panel mounting

Note:
Maintain a 30 mm safety distance from the bottom edge (base mounting) and/or front edge (panel mounting) and side edges of the transformer unit housing to the neighbouring elements to allow for air circulation; otherwise, there is a risk that the Blum transformer could overheat.

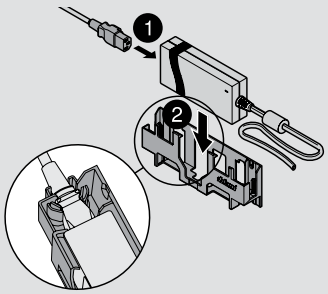
Transformer unit housing for base mounting



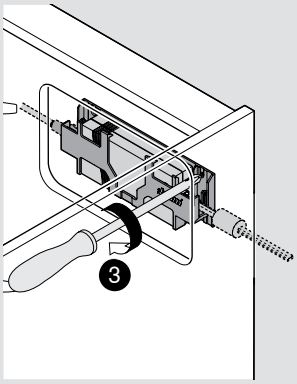
Pull-out stop

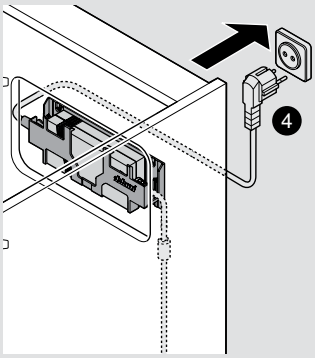


Transformer unit housing for panel mounting

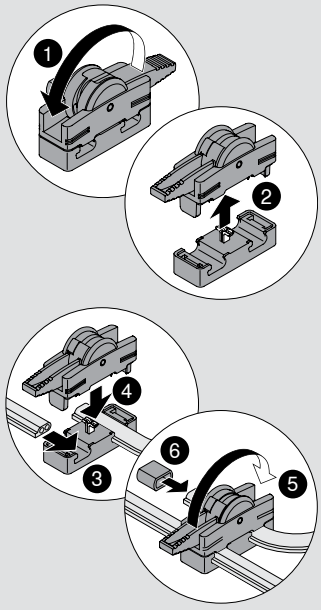


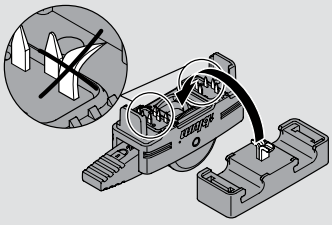
Pull-out stop





Connecting node assembly





Do not damage piercing pins!

The company Blum

Founded over 60 years ago by Julius Blum, Blum is a family-owned company that operates on an international scale. Its strategic business segments include lift, hinge and pull-out systems. All our product developments focus on perfecting motion.

www.blum.com

Blum in Austria and around the world

The company has seven plants in Vorarlberg, Austria, additional production sites in Poland, the USA and Brazil and 29 subsidiaries/representative offices. Blum supplies more than 120 markets. The Blum Group employs 7.300 people in total, 5.500 of whom work in Vorarlberg.

Global customer benefits

“Whether manufacturer, distributor, fitter or kitchen user – everybody should personally enjoy the benefits of Blum products” – that is Blum’s philosophy on global customer benefits.

Innovations

To support customers with innovative fittings solutions and secure long-term success for the company, we need to consistently invest in research and development, in plants and facilities and in employee training. With more than 2.600 patents worldwide, Blum is one of Austria’s most innovative companies.

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Blum’s comprehensive concept of quality does not only apply to products. Services and collaboration with customers and partners should also meet the same quality requirements.

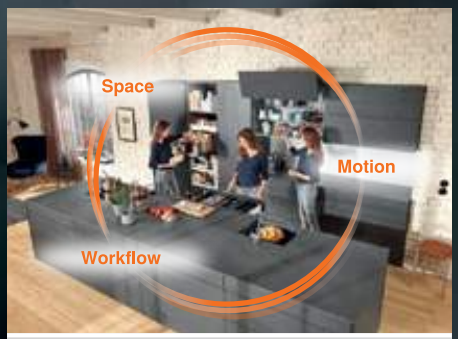
ISO 9001
Certified Quality System

Environment

At Blum, we believe that responsible ecological behaviour has long-term economic benefits. The longevity of products is just one of many important aspects. Other important measures include the use of environmentally-friendly processes, the intelligent use of materials and prudent energy management.

ISO 14001
Certified Environmental System

ISO 50001
Certified Energy System



DYNAMIC SPACE

Good workflows, optimum use of storage space and top quality motion are important features of a practical kitchen. Blum’s ideas for practical kitchens are designed to bring function, convenience and ergonomics to furniture interiors.

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Julius Blum GmbH
Furniture Fittings Mfg.
6973 Höchst, Austria
Tel.: +43 5578 705-0
Fax: +43 5578 705-44
E-mail: info@blum.com
www.blum.com

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