

HÄFELE



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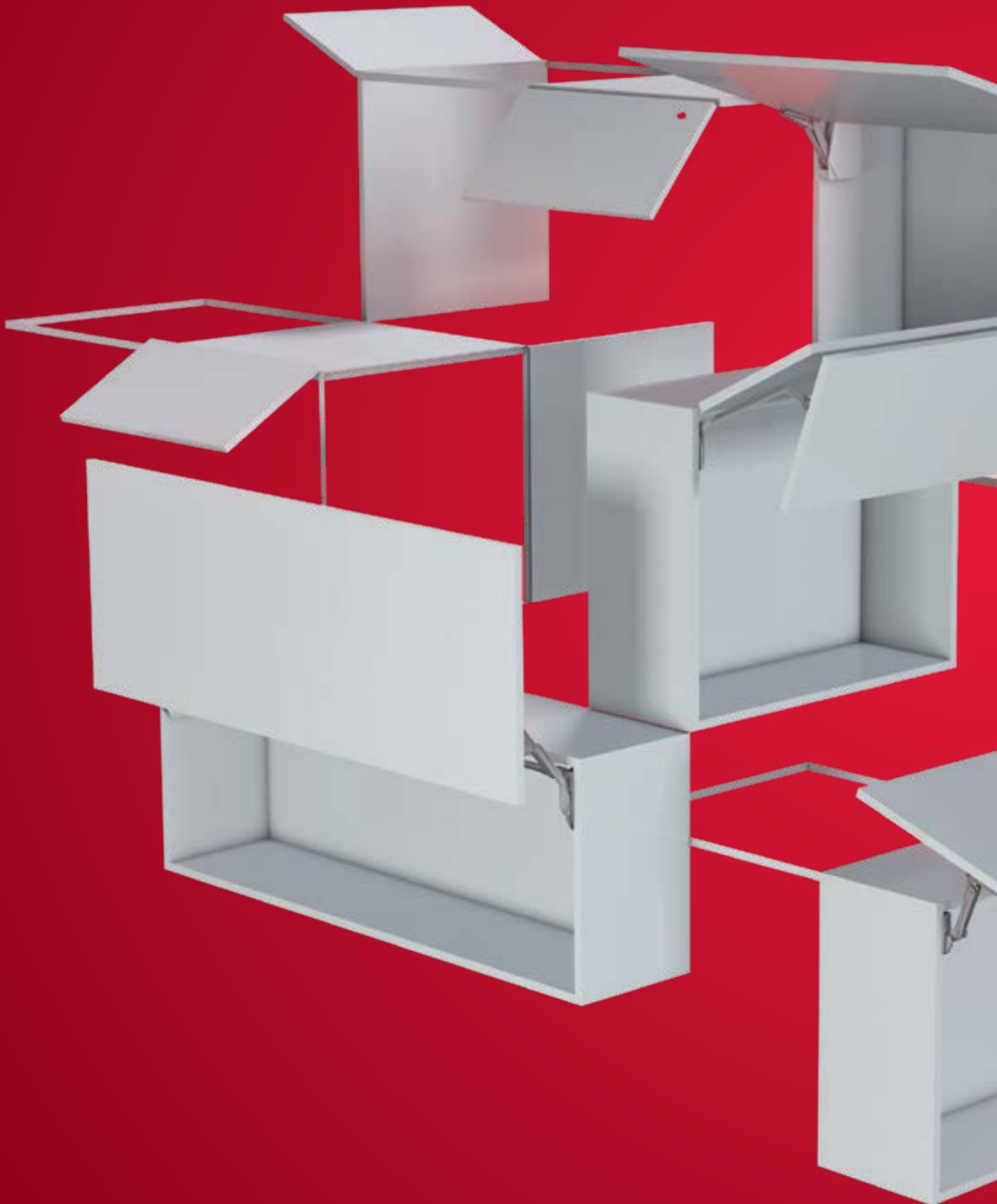
FREE LIFT SYSTEMS



HÄFELE

NEW FREEDOM IN
MOTION. FREE.

LIFT SYSTEMS BY HÄFELE





THE ELEGANCE OF OPENING. FLAPS FOR MAXIMUM FREEDOM IN MOTION. ENGINEERED BY HÄFELE.

The fittings of the Free family give flaps new freedom in movement. This opens up more opportunities in the visual and technical design of furniture and has tangible benefits compared to hinged doors. But above all, it gives the furniture and the room undreamt elegance and lightness. It doesn't matter whether a flap is lifted, tilted, swivelled, or folded – it immediately provides added value and more efficiency when working.

Almost 100 years of experience with furniture fittings, engineering expertise, and a close connection to the market and the people who work with furniture fittings on a daily basis led to the development of this product family. Inspired by the requirements of the market of tomorrow, the Free family fulfils the demands for creative freedom, choice of material, design, ease of installation and convenient operation on a whole new level. Having cycle tested for 80,000 times, these systems meet and even exceed the LGA certification requirements. To put it simply: They are slimmer (with regard to design), lighter (to operate) and simpler (to install).



ELEGANT MOTION IN THE ROOM.



HINGE AND LID
STAY IN ONE.





MAXIMUM ACCESS
TO THE CABINET.



ENGINEERED
BY **HÄFELE**

MINIMAL SPACE REQUIREMENT.

FREE LIFT SYSTEMS

More Design Freedom. More Application Possibilities.

Large fronts need a lot of room to move using conventional types of opening. The Free lift systems vary the flap opening geometry in a creative way. So that the type of opening is geared to the amount of available space or is suitable for the intended application.

Free flap 1.7 / Free flap 3.15



- > Häfele Free flap 1.7: Extremely suitable for small to medium-sized flaps
- > Häfele Free flap 3.15: Extremely suitable for large, heavy flaps in wall units
- > Featherlight opening
- > Hinge connection not required

Free fold



- > Ideal for high wall units with large front panels
- > Handle is always easily accessible, even with high front panels
- > Minimal space required inside the room
- > Material combination possible in the front panel design
- > Finger-safe thanks to patented finger protection of the connecting hinge

Free swing



- > Ideal for large, one-piece front panels
- > Swivels around cornice profiles and surface mounted lights
- > Cabinet contents are extremely easy to access
- > Cross bar can be shortened to individual cabinet widths

Free up



- > Ideal for larger units or wall units with front panels above
- > Also optimally suited for cabinets with cornices or side panels
- > Cross bar can be shortened to individual cabinet widths

Make the process of ordering your Free Lift Systems easy and faultless with the Häfele Configurator.



Scan this QR code to download the mobile application and Log in/Sign Up to access the Free Family Configurator.

Android



iOS



Then simply enter the specifications as directed by the interface to receive the list of article numbers you would need to order as per your unique requirements.

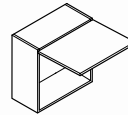
FREE LIFT SYSTEMS

SLIMMER : Space-saving Design



More attractive
Elegant design with functionality.

Slimmer
Intelligent technology reduces
the space requirement.

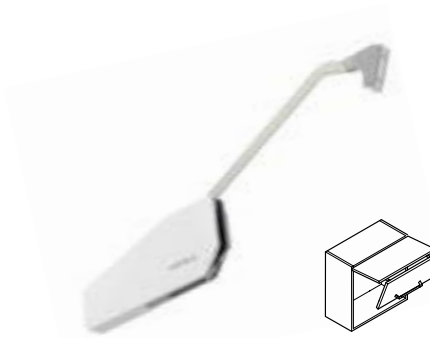


Free flap 1.7:
Only 108 mm wide and 36 mm slim
Free flap 3.15:
Only 131 mm wide and 36 mm slim

Free lift systems combine hinge and lid stay into one unit – this reduces not just the amount of space that the hardware requires in the cabinet but it also looks significantly more elegant. More room, due to the slimline, discreet fittings, increases the amount of usable space in the cabinet interior. The consistent development of the 3-spring system and the motion geometry of the fittings has resulted in a slimmer construction of the housing.

Free Lift Systems

2



Free fold:
Only 288 mm wide and 25.5 mm slim



Free up:
Only 277 mm wide and 25.5 mm slim



Free swing:
Only 273 mm wide and 25.5 mm slim (without arm)

FREE LIFT SYSTEMS

LIGHTER: Easier Operations With Comfort

2

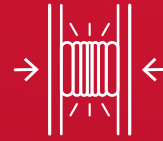
Free Lift Systems

The main focus while developing the range was on providing maximum ease to the user. With the Free Lift Systems, Häfele has created new standards. The range turns opening and closing a cabinet into an experience.



1. FEATHER-LIGHT MOVEMENT

The flaps can be moved with a minimum amount of effort while opening or closing. This is possible even with heavy flaps.



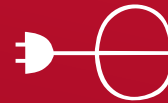
2. SOFT OPENING AND CLOSING

Undampened stops are a thing of the past. The final movement of the flaps is soft and silent in both directions.



3. MULTI-POSITION STOP

The flaps are held reliably in any position, regardless of the flap weight, making the handle reachable at all times.



4. CONVENIENT OPENING AND CLOSING

Electric motion support by Free E-Drive for maximum operating convenience. If required or necessary the flaps can always be operated manually.



5. PUSH-TO-OPEN

For front panels without handles - applying a slight pressure on the bottom of the front opens the flap slightly (in case of Free flap 1.7 and 3.15)



6. SAFETY-STOP (In Case of Free Fold)

The center hinges that connect the two parts of the Free fold flap feature a quick-release finger protection that prevents your fingers from getting caught or crushed .

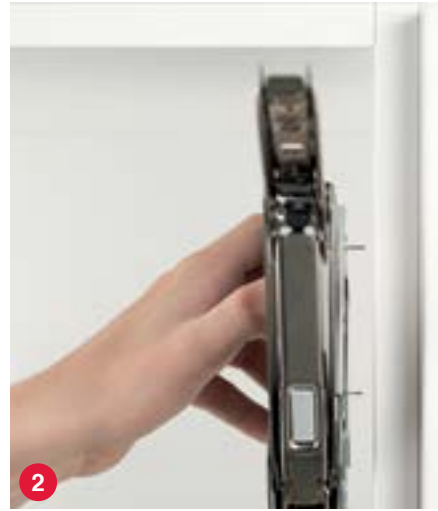
FREE LIFT SYSTEMS

SIMPLER : Quicker Installation Saves Time

An impressive advantage of the Free family is its globally unique simple and quick installation. From one-handed installation and screw fixing of the fittings to clip-on mounting of the flaps, all working steps are optimized in such a way that the fitter saves a noticeable amount of time – for more efficiency.



1
DRILLING TEMPLATES:
 Precise locating of the drill holes is made easier using the paper template provided with each fitting



2
UNIQUE BUILT-IN POSITIONING PINS:
 For installing the fitting with a secure hold.



3
GLOBALLY UNIQUE:
 Can be installed with one hand.



4
SYMMETRICAL SCREW-ON BRACKETS:
 For torsion-free fixing.



5
INSTALLATION WITH CLIP-ON SYSTEM:
 Flap mounting is simple and secure. Dismantling is also done without tools.



6
CONVENIENT ADJUSTMENT:
 Accurate weight balancing of the front panel is achieved using simple access from the front. The same applies to achieve the optimum gap pattern via the three-dimensional adjustments.

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Free Lift Systems





FREE FLAP

FREE FLAP 1.7 / 3.15

2



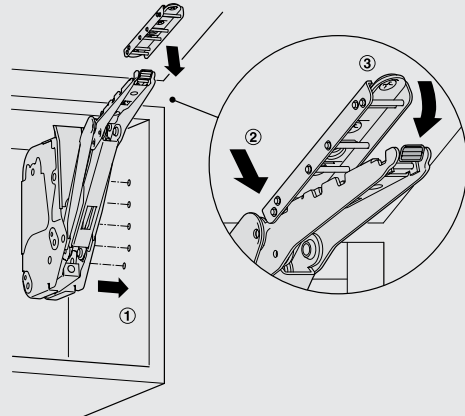
- > Hinge-less stay flap fittings: The two models - Free flap 1.7 and 3.15 are designed for all of the most common cabinet height and flap weight combinations
- > Pleasant operating experience even with heavy flaps
- > Stylish and compact design makes the cabinet interiors easy to access, and allows the fitting to be used even in furniture with low depth (starting at only 109 mm)
- > For front panels made from wood, glass or with aluminium frame
- > Common mechanism to achieve Soft Close or Push-to Open motion
- > Adaptable E-Drive for an electrically operated comfort solution
- > Cover caps for Free Flap 3.15 are also suitable for installation with Free Flap 1.7 to provide a harmonious look in cabinet interiors
- > Extremely suitable for installation in combination with cornices
- > Easy, practical and time-saving installation process

Technical Specifications



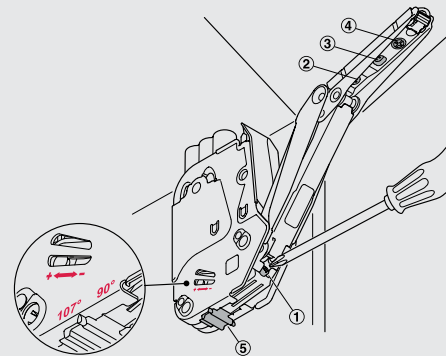
- > Area of application: For stay flap front panels with or without handle (push-to-open)
- > Material: Fitting: Steel, Cover cap: Plastic
- > Finish/colour: Fitting: Nickel plated, Cover cap: Grey, white or anthracite
- > For cabinet height: 200–450 mm (1.7) / 350–650 mm (3.15)
- > Min. cabinet depth: 109 mm (1.7) / 132 mm (3.15)
- > Opening angle: 90° or 107° (In 1.7, opening angle of 90° can be achieved by adding an optional opening angle restraint; in 3.15 the angles are adjustable on the fitting)
- > Adjustment facility: Height/lateral/ tilting angle of front panel ± 1.5 mm, Weight balancing of front panel
- > Installation: Fitting: for screw fixing on pre-drilled side panel with pre-mounted Euro screws and built-in positioning pins, Front Panel: Tool-free assembly (clip system) onto pre-mounted screw-on brackets of the mechanism arms

Quick Fixing System



- ① Fit the lift mechanism in place onto the pre-drilled side panel with the help of the built-in positioning pins and tighten the pre-mounted Euro screws
- ②–③ Fit and engage the front panel onto the Free Flap arm

Ease of Adjustment

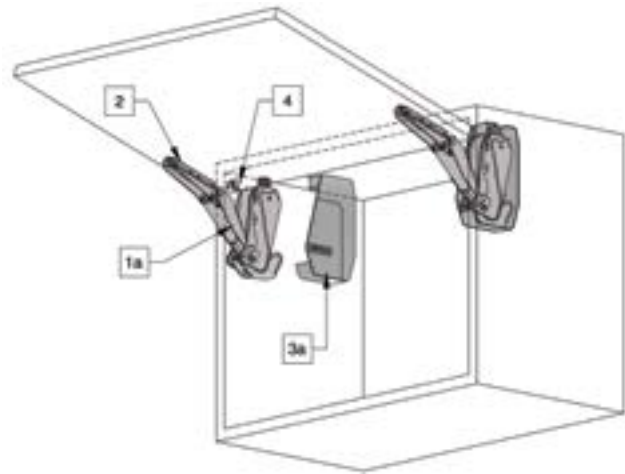


- ① Weight Balancing
- ②–④ Three dimensional adjustments to achieve optimum gap pattern – ② Height Adjustment: ± 1.5 mm ③ Lateral Adjustment: ± 1.5 mm ④ Tilt Adjustment: $\pm 1.5^\circ$
- ⑤ Built-in Opening Angle Stop (only for Free Flap 3.15)

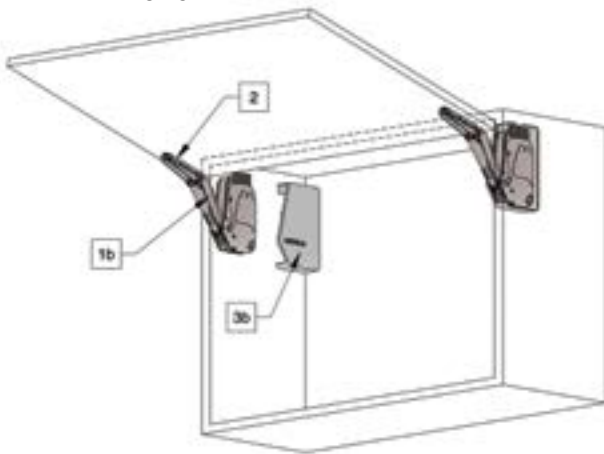
FREE FLAP 1.7 / 3.15

Product Specification

FREE FLAP 1.7



FREE FLAP 3.15



- 1a Free Flap 1.7 Lift System
- 2 Front Fixing Brackets
- 3a Cover Caps for Free Flap 1.7
- 4 Opening Angle Stop

- 1b Free Flap 3.15 Lift System
- 2 Front Fixing Brackets
- 3b Cover Caps for Free Flap 3.15

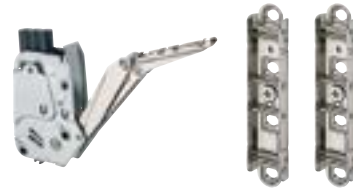
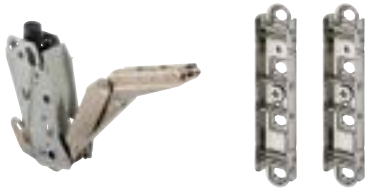
Mechanism Selection Table as Per Flap Weight (including handle)

| Cabinet Height (in mm) | FREE FLAP 1.7 | | | FREE FLAP 3.15 | | | |
|---------------------------|----------------------------|---------|----------|----------------|----------|----------|-----------|
| | A | B | C | D | E | F | G |
| | Front Panel Weight (in Kg) | | | | | | |
| 200 | 1.7-4.6 | 3.6-7.9 | 6.8-14.7 | | | | |
| 225 | 1.5-4.1 | 3.1-7.1 | 6.0-13.1 | | | | |
| 250 | 1.3-3.8 | 2.9-6.4 | 5.4-11.8 | | | | |
| 275 | 1.2-3.3 | 2.5-5.7 | 4.8-10.6 | | | | |
| 300 | 1.1-3.1 | 2.4-5.1 | 4.4-9.6 | | | | |
| 325 | 1.0-2.8 | 2.1-4.6 | 4.0-8.8 | | | | |
| 350 | 0.9-2.6 | 2.0-4.2 | 3.7-8.1 | 5.2-11.0 | 6.7-14.3 | 10.1-21 | 13.5-27.3 |
| 375 | 0.9-2.3 | 1.9-3.8 | 3.5-7.5 | 4.9-10.2 | 6.3-13.1 | 9.4-19.8 | 12.5-25.2 |
| 400 | 0.8-2.1 | 1.7-3.6 | 3.2-7.0 | 4.7-9.6 | 5.9-12.4 | 8.9-18.6 | 11.8-23.3 |
| 425 | 0.7-1.9 | 1.5-3.4 | 2.9-6.5 | 4.4-9.0 | 5.6-11.6 | 8.3-17.4 | 11.0-21.8 |
| 450 | 0.6-1.7 | 1.4-3.2 | 2.7-6.1 | 4.1-8.4 | 5.2-10.9 | 7.8-16.3 | 10.4-20.5 |
| 475 | | | | 3.9-8.0 | 4.9-10.3 | 7.4-15.4 | 9.8-19.3 |
| 500 | | | | 3.7-7.5 | 4.7-9.7 | 7.0-14.6 | 9.2-18.3 |
| 525 | | | | 3.5-7.1 | 4.4-9.2 | 6.6-13.9 | 8.8-17.3 |
| 550 | | | | 3.3-6.8 | 4.2-8.8 | 6.3-13.2 | 8.3-16.5 |
| 575 | | | | 3.2-6.5 | 4.0-8.4 | 6.0-12.5 | 8.0-15.6 |
| 600 | | | | 3.0-6.2 | 3.8-8.0 | 5.7-12.0 | 7.6-15.0 |
| 625 | | | | 2.8-5.9 | 3.6-7.6 | 5.4-11.5 | 7.2-14.4 |
| 650 | | | | 2.6-5.6 | 3.4-7.3 | 5.3-11.0 | 6.9-14.0 |

FREE FLAP 1.7 / 3.15

Ordering Information

Standard Configuration Sets and Components



| FREE FLAP 1.7 SETS* | |
|---------------------|-------------|
| Model | Article No. |
| A | 372.38.151 |
| B | 372.38.152 |
| C | 372.38.153 |

*Consist of: Free Flap 1.7 Lift Mechanism - Left and Right, 2 Front Fixing Brackets for Wooden Front Panels or Front Panels with Wide Aluminium Frame (Min. Frame Width: 45 mm) and Paper Template

| FREE FLAP 3.15 SETS* | |
|----------------------|-------------|
| Model | Article No. |
| D | 372.38.154 |
| E | 372.38.155 |
| F | 372.38.156 |
| G | 372.38.157 |

*Consist of: Free Flap 3.15 Lift Mechanism - Left and Right, 2 Front Fixing Brackets for Wooden Front Panels or Front Panels with Wide Aluminium Frame (Min. Frame Width: 45 mm) and Paper Template



| Cover Caps | | | |
|------------------|------------|------------|------------|
| Free Flap System | Anthracite | Grey | White |
| 1.7 | 372.38.158 | 372.38.159 | 372.38.160 |
| 3.5 | 372.38.161 | 372.38.162 | 372.38.163 |

Unit: 1 Pair

Note: Cover caps for Free Flap 3.15 are also suitable for installation with Free Flap 1.7



| Narrow Aluminium Frame Adapters | |
|---------------------------------|-------------|
| Finish | Article No. |
| Nickel-plated | 372.91.599 |

Unit: 1 Pair

Note: Fitting is visible with float and satin frosted glass, passe-partout or obscure glass may therefore be used.

- > For flaps with 20 mm aluminium frame
- > M4 x 10 mm fixings included
- > Material: Zinc alloy



| Opening Angle Stop | |
|--------------------|-------------|
| Finish | Article No. |
| Black | 372.91.499 |

Unit: 1 Pair

- > For limiting opening angle of 107° to 90°
- > Only applicable for Free Flap 1.7 sets

Individual Components



| 1: Free Flap 1.7 Lift System | | |
|------------------------------|-------------|------------|
| Model | Article No. | |
| | Left | Right |
| A | 372.91.601 | 372.91.600 |
| B | 372.91.603 | 372.91.602 |
| C | 372.91.605 | 372.91.604 |

Unit: 1 Piece

| Free Flap 3.15 Lift System | | |
|----------------------------|-------------|------------|
| Model | Article No. | |
| | Left | Right |
| D | 372.91.262 | 372.91.261 |
| E | 372.91.264 | 372.91.263 |
| F | 372.91.266 | 372.91.265 |
| G | 372.91.258 | 372.91.257 |

Unit: 1 Piece

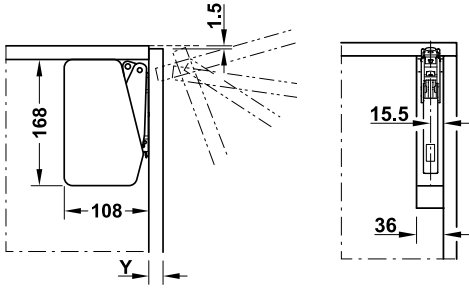
| Front Fixing Brackets | |
|-----------------------|-------------|
| Fixing | Article No. |
| Screw-on | 372.56.560 |

Unit: 1 Pair

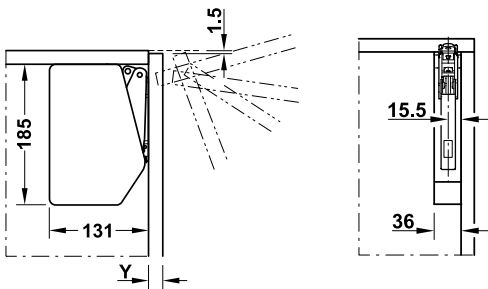
FREE FLAP 1.7 / 3.15

Planning

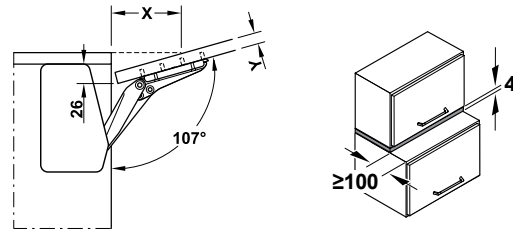
Free Flap 1.7



Free Flap 3.15



Space Requirement

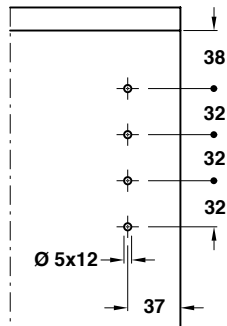


| | | | | | |
|--|----|----|----|----|----|
| Front panel thickness Y mm | 16 | 19 | 22 | 26 | 28 |
| Distance X mm (with top panel thickness 16 mm) | 83 | 74 | 64 | 52 | 46 |

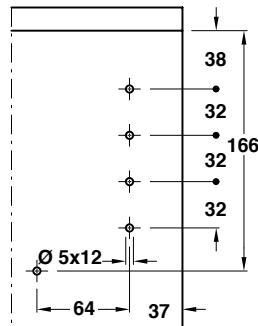
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Carcase Drilling Positions

Free Flap 1.7

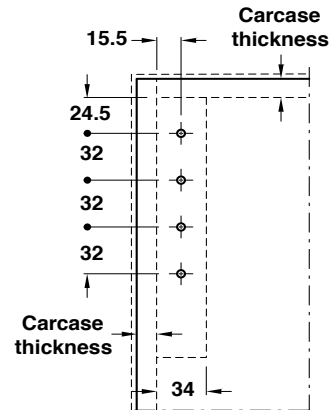


Free Flap 3.15

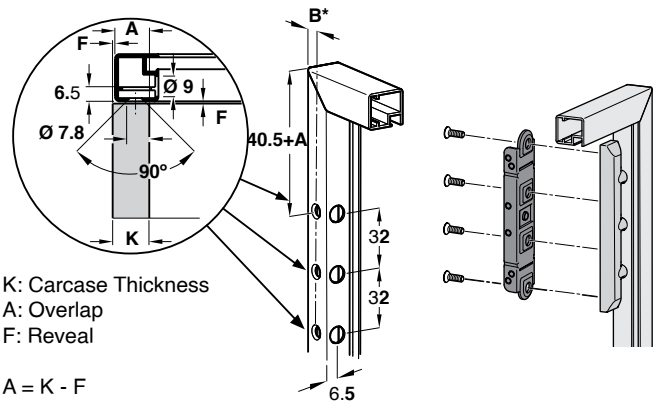


Front Panel Drilling Positions

Wooden / Wide Aluminium Framed Panel



Narrow Aluminium Framed Panel



K: Carcase Thickness
A: Overlap
F: Reveal

A = K - F
B = A - 5.5 mm

B : 7 mm (minimum), 13.5 mm (maximum)



SCAN ME

SCAN ME

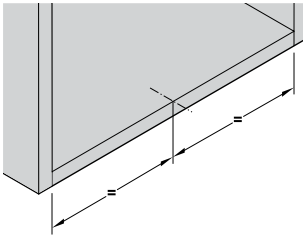
Free Lift Systems

FREE FLAP 1.7 / 3.15 - PUSH-TO-OPEN ACCESSORIES

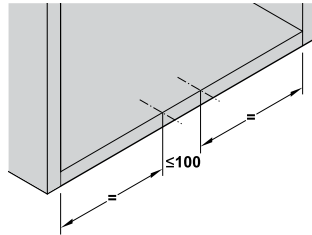
Push-to-Open Triggers and Housing



- > Area of application: For front panels without handle, with Free flap 1.7 and 3.15 stay flap fitting, up to a width of max.1,200 mm
- > Material: Plastic
- > Installation: For mounting in drilled hole Ø 10 mm or sliding into screw-on housing
- > Adjustment facility: Front gap +4 mm
- > Release distance approx. 2 mm



Positioning with 1 push-to-open trigger



Positioning with 2 push-to-open triggers

Differentiation criteria of the model versions

Colour-coded housing underside for differentiation between models type 1 (green), type 2 (yellow) and type 3 (blue)



2

Free Lift Systems

Push-to-Open Trigger Selection Table

Free Flap 1.7

| Cabinet height (mm) | Push-to-Open Triggers (Model & Quantity) | | | | |
|---------------------|--|------------|------------|------------|-------------|
| | Type 1 x 1 | Type 2 x 1 | Type 3 x 1 | Type 2 x 2 | Type 3 x 2 |
| | Front Panel Weight in Kg | | | | |
| 200 | 1.7 - 3.1 | 3.1 - 5.4 | 5.4 - 8.3 | 8.3 - 12.3 | 12.3 - 14.7 |
| 225 | 1.5 - 2.9 | 2.9 - 4.7 | 4.7 - 7.1 | 7.1 - 11.6 | 11.6 - 13.1 |
| 250 | 1.3 - 3.1 | 3.1 - 5.1 | 5.1 - 6.9 | 6.9 - 10.5 | 10.5 - 11.8 |
| 275 | 1.2 - 3.3 | 3.0 - 5.0 | 5.0 - 6.8 | 6.8 - 10.0 | 10.0 - 10.6 |
| 300 | 1.1 - 3.0 | 2.7 - 4.6 | 4.6 - 6.6 | 6.6 - 9.6 | |
| 325 | 1.0 - 3.0 | 2.6 - 4.2 | 4.2 - 6.0 | 6.0 - 8.8 | |
| 350 | 0.9 - 2.9 | 2.4 - 4.2 | 3.9 - 5.9 | 5.9 - 8.1 | |
| 375 | 0.9 - 2.7 | 2.7 - 3.9 | 3.9 - 5.7 | 5.7 - 7.5 | |
| 400 | 0.8 - 2.7 | 2.7 - 3.8 | 3.8 - 5.6 | 5.6 - 7.0 | |
| 425 | 0.7 - 2.3 | 2.3 - 4.0 | 4.0 - 5.0 | 5.0 - 6.5 | |
| 450 | 0.6 - 2.4 | 2.4 - 3.3 | 3.3 - 5.1 | 5.1 - 6.1 | |

Free Flap 3.15

| Cabinet height (mm) | Push-to-Open Triggers (Model & Quantity) | | | | |
|---------------------|--|------------|------------|------------|------------|
| | Type 1 x 1 | Type 2 x 1 | Type 3 x 1 | Type 2 x 2 | Type 3 x 2 |
| | Front Panel Weight in Kg | | | | |
| 350 | | 5.2-8.1 | 6.7-11.8 | 10.1-18.1 | 17.9-27.3 |
| 400 | | 4.7-9.0 | 7.9-12.3 | 10.7-17.9 | 17.2-23.3 |
| 450 | 4.1-5.0 | 5.0-8.4 | 7.8-10.9 | 10.2-16.7 | 16.7-20.5 |
| 500 | 3.7-4.9 | 4.7-7.8 | 7.0-10.7 | 10.0-16.0 | 16.0-18.3 |
| 550 | 3.3-4.9 | 4.5-7.5 | 6.8-10.4 | 9.7-15.3 | 15.3-16.5 |
| 600 | 3.0-4.7 | 4.2-7.2 | 6.7-10.2 | 9.2-15.0 | |
| 650 | 2.6-4.1 | 3.4-6.4 | 5.3-10.5 | 8.4-14.0 | |

FREE FLAP 1.7 / 3.15 - PUSH-TO-OPEN ACCESSORIES

Ordering Information

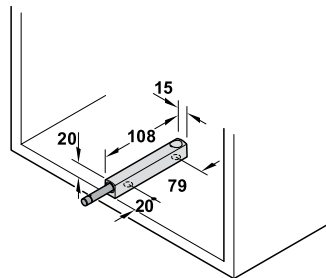


- > For mounting in drilled hole Ø 10 x 90 mm
- > Material: Plastic with rubber buffer



| Push-To-Open Triggers | | | | | |
|-----------------------|-------------|----------------|------------|------------|------------|
| Model | Colour Code | Ejection Force | Anthracite | Grey | White |
| Type 1 | Green | 17 - 23 N | 372.91.390 | 372.91.500 | 372.91.700 |
| Type 2 | Yellow | 22 - 34 N | 372.91.391 | 372.91.501 | 372.91.701 |
| Type 3 | Blue | 26 - 48 N | 372.91.392 | 372.91.502 | 372.91.702 |

Unit: 1 Piece



- > Recommended type of screw: Head Ø : 7-9 mm, Thread Ø 3.5-4.5 mm, Screw length >15 mm
- > Material: Plastic



| Screw-On Housing | |
|------------------|-------------|
| Colour | Article No. |
| Anthracite | 372.91.393 |
| Grey | 372.91.503 |
| White | 372.91.703 |

Unit: 1 Piece

FREE FLAP 1.7 / 3.15 - E-DRIVE

- > **Free E-Drive is Häfele's electro-mechanical movement assistance for the entire application area of the Free family**
- > The electrical drive solution is perfectly coordinated with all Free Lift Systems
- > Standard programming and operating functions for all Free E applications
- > The installation position and the range of applications of the Free Flap fittings remain unchanged
- > Component installation can be done practically without tools
- > The E-Drive unit can be retrofitted at any time to the standard mechanical fitting
- > Extremely quiet and smooth running
- > With integrated free-swing function for effortless manual operation of the flap (even in the event of a power failure)
- > Automatic safety stop function interrupts the opening or closing movement if obstacles are detected
- > Parallel connection for up to three drive units, collision avoidance with cross-corner installations and temporary disabling of the drive to clean the flap fronts can also be programmed (optional)



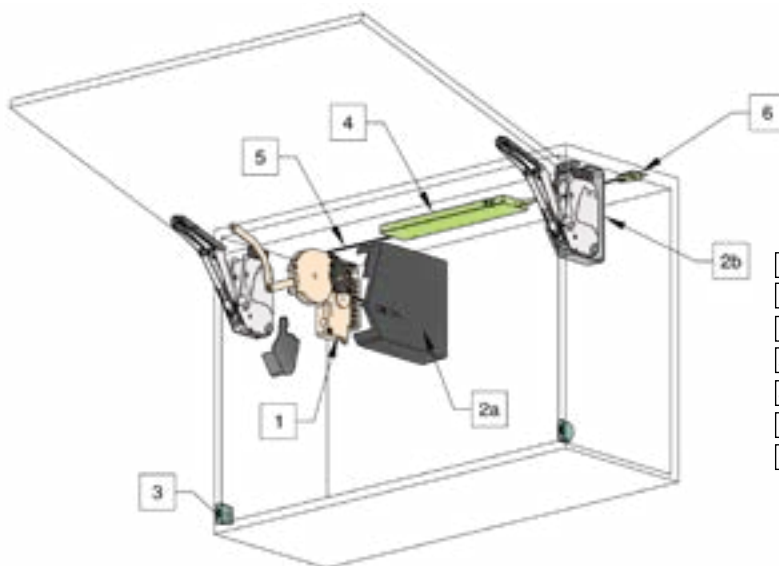
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Free Lift Systems



- > Area of application: Drive housing: Zinc alloy, Cover caps: Plastic
- > Material: Fitting: Nickel plated, Cover cap: Grey, white or anthracite
- > For flap width: <1,200 mm (>1,200 mm = 2 sets)
- > Min. cabinet depth: 109 mm (1.7) / 132 mm (3.15)
- > Input voltage: 100–240 V AC/50–60 Hz/1.3 A
- > Nominal voltage: 24 V DC/3.75 A
- > Output voltage: For interior cabinet lighting: 24 V DC/1.2 A
- > Stand-by power consumption: 1 W
- > Radio Frequency: 2.4 GHz
- > Protection class: II
- > Installation: E-Drive unit for screw fixing onto left Free fitting, Push button sender for recess installation in side panel (drill hole Ø 35 mm)

FREE FLAP 1.7/ 3.15



- 1 Free Flap E-Drive Mechanism
- 2a Cover Cap for E-Drive Mechanism
- 2b Cover Cap for Free Flap 3.15
- 3 Push Button Switches
- 4 Loox 24V Driver
- 5 Connecting Cable
- 6 Loox Power Supply Cable

FREE FLAP 1.7 / 3.15 - E-DRIVE

Ordering Information

Sets



| E-Drive Set For Free Flap 1.7 / 3.15* | |
|---|----------------|
| For Models | Article Number |
| A - G | 372.38.165 |
| *Consists of: 1 Free Flap 1.7 / 3.15 E-Drive Unit, 1 Loox Driver: 90 W- 24V, 1 Loox Power Supply Cable and 1 Connection Cable | |

| E-Drive Free Flap Cover Cap Set* | | | |
|---|------------|------------|------------|
| Free Flap Systems | Anthracite | Grey | White |
| 1.7 E / 3.15 E | 372.38.186 | 372.38.185 | 372.38.184 |
| *Consists of: 1 Cover Cap for E-Drive (left) and 1 Cover Cap for Free Flap 3.15 (right) | | | |

Unit: 1 Set

Individual Components



| Free Flap E-Drive Mechanism Set* | |
|--|-------------|
| For Models | Article No. |
| A - G | 372.91.099 |
| *Consists of: Free Flap E-Drive Mechanism, 1 E-Drive Front Fixing Bracket and 2 E-Drive Push Button Switches | |

Unit: 1 Set

| E-Drive Push Button | |
|---------------------|-------------|
| Finish | Article No. |
| Grey | 372.91.097 |

Unit: 1 Pair

- > Radio frequency: 2.4 GHz
- > Replaceable CR 2032 button cell lithium battery included

| LOOX 24 V Driver | |
|------------------|-------------|
| Wattage | Article No. |
| 90 W | 833.77.949 |

Unit: 1 Piece

- > Only 1 E-drive unit can be connected to one driver
- > Colour: Black
- > With overload protection
- > Degree of Protection: IP 20



| LOOX Power Supply Cable | | |
|-------------------------|---------|-------------|
| Type of plug | Length | Article No. |
| EU | 2000 mm | 833.89.002 |

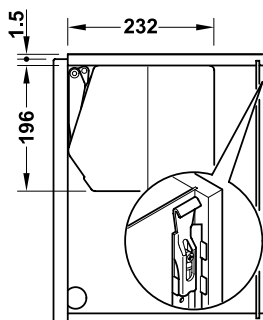
Unit: 1 Piece



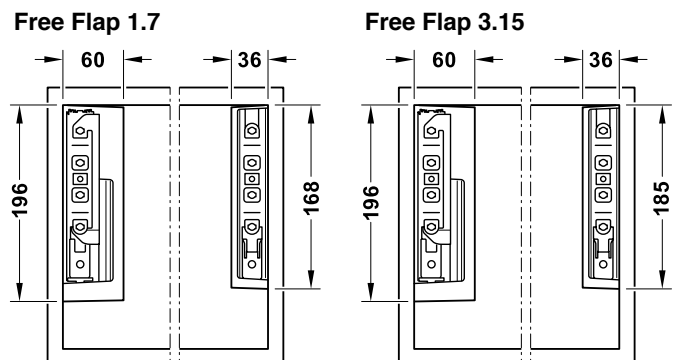
| Connecting Cable | |
|------------------|-------------|
| Length | Article No. |
| 1400 mm | 850.00.022 |

Unit: 1 Piece

Planning

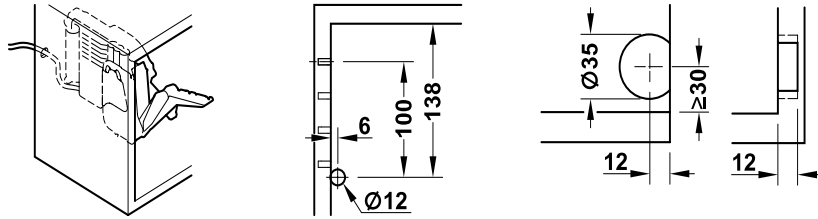


Space Requirement



FREE FLAP 1.7 / 3.15 - E-DRIVE

Cable Guide and Push Button Switch Installation



Installation and Programming

2



> The E-Drive drive unit sits on the left-hand fitting. The lead is simply inserted into the drive unit.



> 24 V interior cabinet lighting from the Loox product range can also be operated using the drive unit.
> The light switches on when the flap is opened.



> The push button sender assigning and the programming of other functions take place via a switching button directly on the drive unit. All programming processes are accompanied and acknowledged by visual and acoustic system feedback.

Operation



> Opening: The sensor switches, which are usually recessed in the side panels, react to gentle pressure on the flap front.
> They emit a radio signal and the flap moves quietly and automatically to the open position.



> Closing: Pressing the button on the inner surface of the sensor switch sends a radio signal to the drive, which then automatically closes the flap.
> The movement to the closed position takes place quietly and gently.



> The free-swing function integrated in all E-Drive drive units makes effortless manual operation of the flap applications possible.
> The multi-position stop function that is typical of the Free flap fittings ensures that the flap locks securely in any position.



SCAN ME







FREE FOLD

FREE FOLD



- > For two-piece flaps with division 1:1 made from wood or with aluminium frame
- > High front panels can be lifted up in a space-saving way
- > The handle is reachable at all times
- > Pleasant operating experience even with heavy flaps
- > Stylish and compact design
- > Flap front panel material combinations possible
- > Safety stop
- > Minimum opening resistance, multi-position stop function and integrated soft opening and soft closing mechanisms for ease and convenience
- > For use in combination with standard 110° concealed hinges
- > Adaptable E-Drive for an electrically operated comfort solution
- > Practical and quick installation

2

Highest Operating Convenience

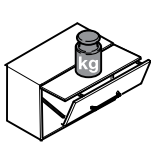


- > Minimum opening resistance
- > Flap locks in any position (multi-position stop)
- > Smooth, soft closing movement

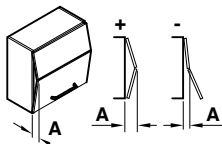
Technical Specifications

- > Material: Fitting: Steel, Cover cap: Plastic
- > Finish/colour: Fitting: Galvanised, Cover cap: Grey, white or anthracite
- > Max. cabinet height: 1040 mm
- > Min. cabinet depth: 288 mm
- > Max. cabinet width: 1800 mm (with 4 lift mechanisms)
- > Adjustment facility: Height/ side/ depth of top flap (via concealed hinge) and lower flap (via connecting hinge)
Weight balancing of panel /centre pull (via lift mechanism)
- > Installation: Fitting: for screw fixing on pre-drilled side panel with pre-mounted Euro screws and built-in positioning pins, Front Panel: Tool-free assembly (clip system) onto pre-mounted screw-on brackets of the mechanism arms

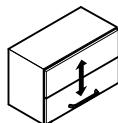
Adjustment facility



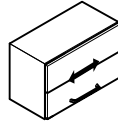
Weight balancing adjustment



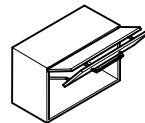
Centre pull adjustment



Height adjustment
±3 mm

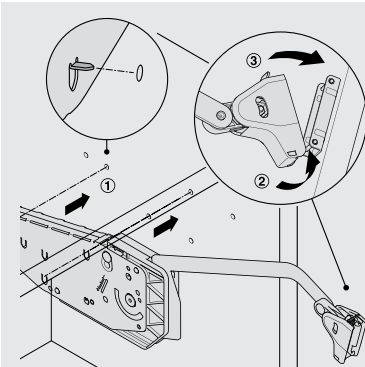


Side adjustment
± 3 mm



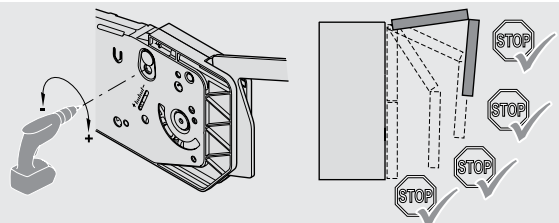
Opening angle adjustment

Quick Fixing System



- ① Fit the lift mechanism in place onto the pre-drilled side panel with the help of the built-in positioning pins and tighten the pre-mounted Euro screws
- ② Attach top half of front panel, engage arm of fitting in front fixing bracket of lower half of front panel

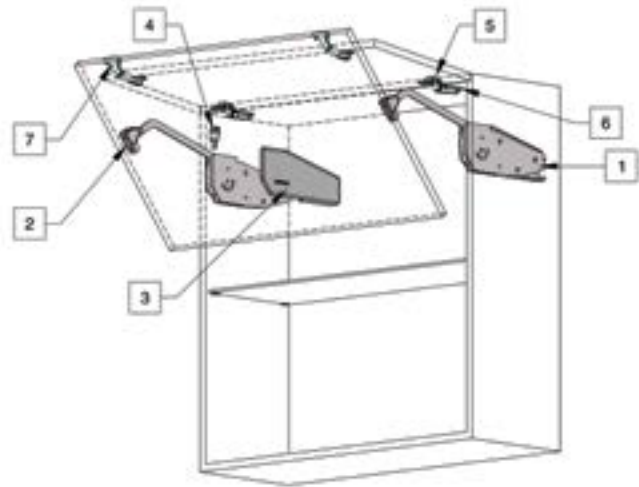
Weight Balancing Adjustment of Fitting



- > Insert PZ2 screw driver all the way into the opening (as shown above).
- > Set the cordless screwdriver on low-speed torque.
- > Ensure the same weight balancing adjustment is carried out on both sides (left and right).

FREE FOLD

Product Specification



- 1 Free Fold Lift System
- 2 Front Fixing Brackets
- 3 Cover Caps
- 4 Opening Angle Stop
- 5 Duomatic 110° Concealed Hinge for Top Flap
- 6 Straight Mounting Plate for Duomatic Concealed Hinge
- 7 Connecting Hinge

2

Free Lift Systems

Mechanism Selection Table and Ordering Information

Standard Configuration Sets & Components

| Free Fold Sets* | | | |
|-----------------|---------------------|------------------|-------------|
| Model | Cabinet height (mm) | Flap weight (kg) | Article No. |
| C3fo | 480-530 | 5.2-11.1 | 372.38.102 |
| C4fo | 480-530 | 7.8-16.3 | 372.38.103 |
| C5fo | 480-530 | 12.7-26.5 | 372.38.101 |
| D3fo | 520-590 | 4.8-10.3 | 372.38.105 |
| D4fo | 520-590 | 7.2-15.2 | 372.38.106 |
| D5fo | 520-590 | 11.8-24.5 | 372.38.104 |
| E3fo | 580-650 | 4.3-9.2 | 372.38.107 |
| E4fo | 580-650 | 6.5-13.5 | 372.38.108 |
| F3fo | 650-730 | 3.9-8.3 | 372.38.109 |
| F4fo | 650-730 | 5.8-12.2 | 372.38.110 |
| G4fo | 710-790 | 5.3-11.1 | 372.38.111 |
| G5fo | 710-790 | 8.7-18.0 | 372.38.112 |
| H4fo | 770-840 | 4.9-10.3 | 372.38.113 |
| H5fo | 770-840 | 8.0-16.7 | 372.38.114 |
| I5fo | 840-910 | 7.3-15.3 | 372.38.115 |
| J5fo | 910-970 | 6.8-14.2 | 372.38.116 |
| K5fo | 960-1010 | 6.5-13.5 | 372.38.117 |
| K6fo | 960-1010 | 8.6-17.3 | 372.38.118 |
| L5fo | 1000-1040 | 6.2-12.9 | 372.38.100 |

*Consist of: Free Fold Lift Mechanism - Left and Right, 2 Front Fixing Brackets for Wooden Front Panels or Front Panels with Wide Aluminium Frame (Min. Frame Width: 45 mm), 3 Connecting Hinges, 3 Metalla 510 110° Concealed Hinges, 3 Straight Clip Mounting Plates and Paper Template

FREE FOLD

Ordering Information



| Hinge and Adapter Kit for Narrow Aluminium Profile* | |
|--|------------|
| Article No. | 372.38.122 |
| *Consist of: 2 Narrow Aluminium Frame Adapters and 3 Narrow Aluminium Profile Hinges | |

Unit: 1 Set



| Cover Caps | | | |
|------------|------------|------------|------------|
| Material | Anthracite | Grey | White |
| Plastic | 372.38.119 | 372.38.120 | 372.38.121 |

Unit: 1 Pair

2



| Opening Angle Stop | |
|--------------------|-------------|
| Finish | Article No. |
| Grey | 372.37.060 |

Unit: 1 Piece

- > Restricts the opening angle to 90° for low level applications
- > Material: Plastic
- > 2 pieces required per flap fitting set



Individual Components



| Free Fold | | |
|-----------|-------------|------------|
| Model | Article No. | |
| | Left | Right |
| L5fo | 372.37.699 | |
| C5fo | 372.38.188 | 372.38.187 |
| C3fo | 372.37.612 | |
| C4fo | 372.37.613 | |
| D5fo | 372.38.194 | 372.38.193 |
| D3fo | 372.38.190 | 372.38.189 |
| D4fo | 372.38.192 | 372.38.191 |
| E3fo | 372.37.831 | 372.37.830 |
| E4fo | 372.37.833 | 372.37.832 |
| F3fo | 372.91.607 | 372.91.606 |
| F4fo | 372.91.609 | 372.91.608 |
| G4fo | 372.91.611 | 372.91.610 |
| G5fo | 372.37.853 | 372.37.852 |
| H4fo | 372.91.613 | 372.91.612 |
| H5fo | 372.91.615 | 372.91.614 |
| I5fo | 372.38.196 | 372.38.195 |
| J5fo | 372.37.684 | |
| K5fo | 372.37.694 | |
| K6fo | 372.37.691 | |

Unit: 1 Piece/ 1 Pair



| Front Fixing Brackets | |
|-----------------------|-------------|
| Fixing | Article No. |
| Screw-on | 372.38.200 |

Unit: 1 Pair

- > For front panel made from wood or with wide aluminium frame



| Metalla 510 - 110° Concealed Hinge For Top Flap | |
|---|-------------|
| Fixing | Article No. |
| Screw-on | 329.17.600 |

Unit: 1 Piece

| Straight Mounting Plate | |
|-------------------------|-------------|
| Fixing | Article No. |
| Clip | 329.67.043 |

Unit: 1 Piece

- > Material: Steel/ Zamac
- > Finish: Nickel plated
- > Adjustment facility: Side adjustment from -1.5 to +4.5 mm (via Hinge),
Depth Adjustment from -0.5 mm to 2.8 mm (via Mounting Plate)
Height Adjustment : 2 mm (via Mounting Plate)
- > With automatic closing spring
- > Mounting: Screw Mounting



FREE FOLD

Ordering Information



| Narrow Aluminium Frame Adapters | |
|---------------------------------|-------------|
| Finish | Article No. |
| Nickel-plated | 372.37.044 |

Unit: 1 Pair

Note

Fitting is visible with float and satin frosted glass, passe-partout or obscure glass may therefore be used.

- > For flaps with 20 mm aluminium frame
- > Material: Zinc alloy
- > Fixing material supplied



| Metalla 510 - Narrow Aluminium Profile Hinge | |
|--|-------------|
| Cup fixing | Article No. |
| For screw fixing | 329.48.517 |

Unit: 1 Piece

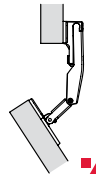
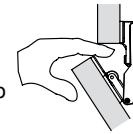
- > Material: Alloy cup: Zinc, Hinge arm: Steel
- > Finish: Nickel plated
- > Adjustment facility: Side adjustment from -1.5 to +4.5 mm (via Hinge),
Depth Adjustment from -0.5 mm to 2.8 mm (via Mounting Plate)
Height Adjustment : 2 mm (via Mounting Plate)
- > Installation: Using Straight mounting plate for screw fixing
- > Drilling depth: Hinge cup 12.5 mm
- > Opening angle: 105°
- > With automatic closing spring
- > To be installed with Straight Mounting Plate (329.67.043)



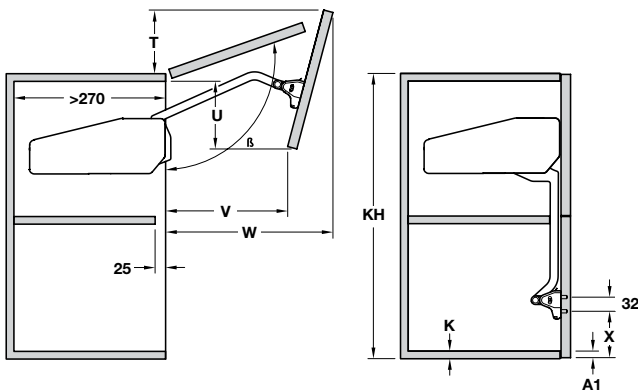
| Connecting Hinge | |
|------------------|-------------|
| Fixing | Article No. |
| Screw-on | 372.64.796 |

Unit: 1 Piece

- > Area of application: For wooden flaps and flaps with aluminium frame, from frame width 20 mm
- > Material: Zinc alloy
- > Finish: Nickel plated
- > Adjustment facility: 3-dimensional, side adjustment ±2 mm, gap adjustment -2 to +1 mm, depth adjustment ±1.5 mm
- > With **finger protection system**: The hinge comes apart when fingers get trapped unintentionally in the gap of the flap.



Planning and Space Requirement

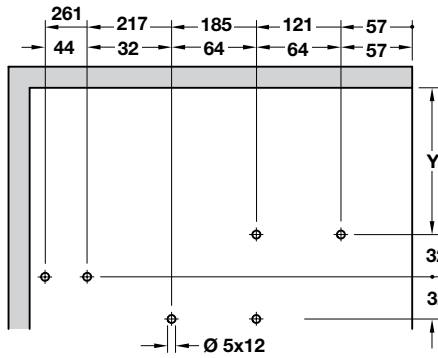


- β: Opening angle
- KH: Cabinet height
- K: Panel thickness
- T: Space required on top of the cabinet
- W: Space required in front of the cabinet
- X: Drilling distance for screw hole for front fixing brackets from lower edge of front panel

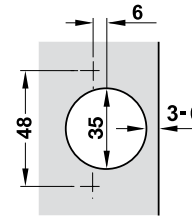
| KH | β (°) | Q | R (mm) | S (mm) | T (mm) | U (mm) | V (mm) | W (mm) |
|-----------|----------|-----|--------|--------|---------|---------|---------|---------|
| 480-530 | ~107-96 | 1.1 | 426 | 328 | 100-37 | 100-155 | 203-186 | 328-370 |
| 520-590 | ~107-93 | 1.1 | 466 | 347 | 106-23 | 112-184 | 213-190 | 347-401 |
| 580-650 | ~108-95 | 1.2 | 589 | 377 | 119-40 | 126-197 | 227-207 | 375-430 |
| 650-730 | ~107-94 | 1.2 | 664 | 409 | 124-38 | 147-224 | 238-215 | 411-470 |
| 710-790 | ~108-95 | 1.2 | 736 | 439 | 136-46 | 161-233 | 250-219 | 439-500 |
| 770-840 | ~108-95 | 1.0 | 644 | 467 | 146-43 | 179-223 | 267-200 | 466-527 |
| 840-910 | ~108-98 | 1.2 | 882 | 501 | 154-70 | 195-248 | 272-231 | 502-559 |
| 910-970 | ~107-98 | 1.1 | 865 | 533 | 160-78 | 214-246 | 282-225 | 536-588 |
| 960-1010 | ~107-100 | 1.1 | 915 | 557 | 170-99 | 228-251 | 295-240 | 560-605 |
| 1000-1040 | ~107-102 | 1.1 | 954 | 576 | 177-120 | 239-256 | 306-256 | 578-616 |

FREE FOLD

Carcase Drilling Positions



Metalla 510 - Concealed Hinge & Mounting Plate Drilling Pattern

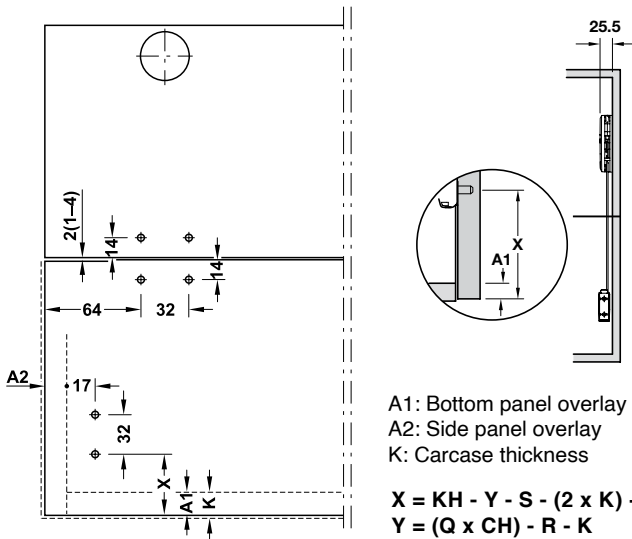


| Door overlay mm | | | | | | | | | | | | | |
|----------------------|----|----|----|----|----|----------------------------|----|----|----|----|----|----|---|
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | |
| | | | | | | 3 | 4 | 5 | 6 | | | | 3 |
| Distance to cup E mm | | | | | | Mounting plate distance mm | | | | | | | |

2

Front Panel Drilling Positions

Wooden / Wide Aluminium Framed Panel

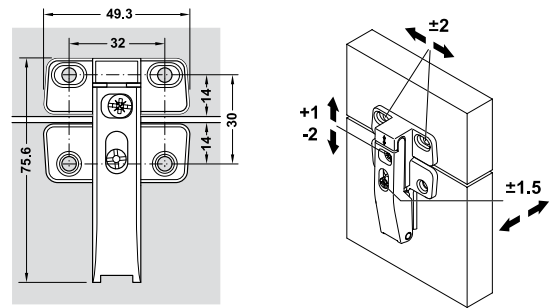


A1: Bottom panel overlay
 A2: Side panel overlay
 K: Carcase thickness

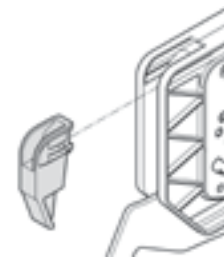
$X = KH - Y - S - (2 \times K) + A1$
 $Y = (Q \times CH) - R - K$

Note: use 3 hinges for flap widths >900 mm

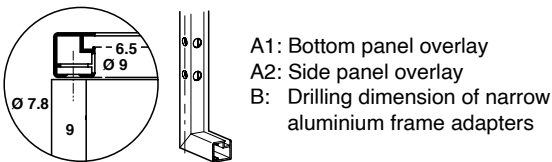
Connecting Hinge Drilling Pattern & Adjustment



Positioning of Opening Angle Stop

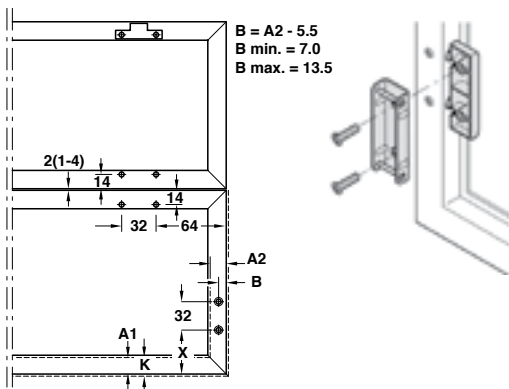


Narrow Aluminium Framed Panel

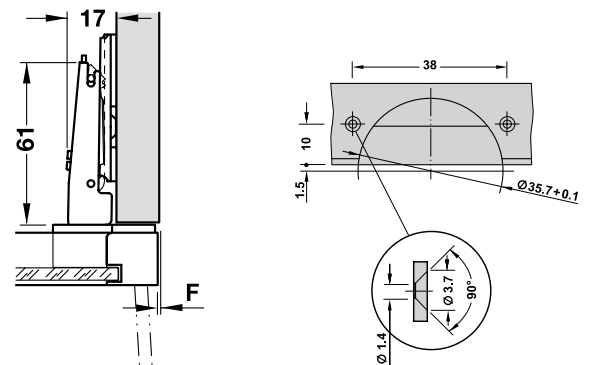


A1: Bottom panel overlay
 A2: Side panel overlay
 B: Drilling dimension of narrow aluminium frame adapters

$B = A2 - 5.5$
 $B \text{ min.} = 7.0$
 $B \text{ max.} = 13.5$



Metalla 510 - Narrow Aluminium Profile Hinge & Mounting Plate Drilling Pattern



F = minimum gap



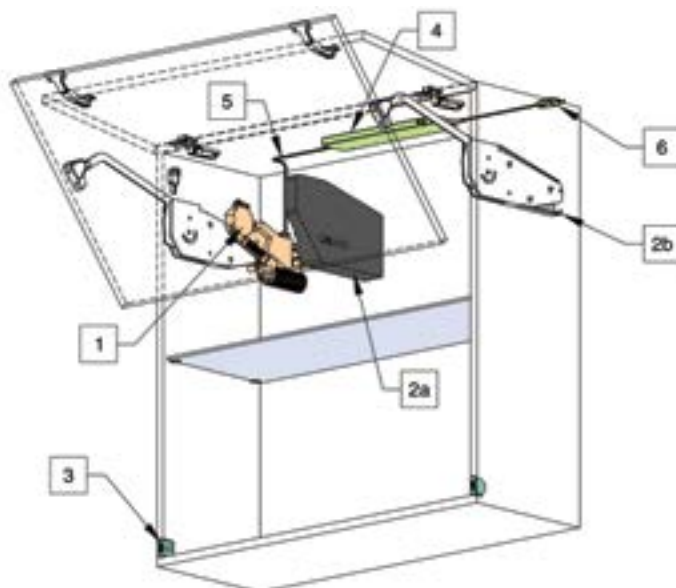
SCAN ME

FREE FOLD - E-DRIVE

- > **Free E-Drive is Häfele's electro-mechanical movement assistance for the entire application area of the Free flap fitting family**
- > The electrical drive solution is perfectly coordinated with all Free Lift Systems
- > Standard programming and operating functions for all Free E applications
- > The installation position and the range of applications of the Free Fold fittings remain unchanged
- > Component installation can be done practically without tools
- > The E-Drive unit can be retrofitted at any time to the standard mechanical fitting
- > Extremely quiet and smooth running
- > With integrated free-swing function for effortless manual operation of the flap (even in the event of a power failure)
- > Automatic safety stop function interrupts the opening or closing movement if obstacles are detected
- > Parallel connection for up to three drive units, collision avoidance with cross-corner installations and temporary disabling of the drive to clean the flap fronts can also be programmed (optional)



- > Material: Drive housing: Zinc alloy, Cover caps: Plastic
- > Finish/colour: Fitting: Nickel plated, Cover cap: Grey, white or anthracite
- > For flap width: <1,200 mm (>1,200 mm = 2 sets)
- > For cabinet height: 480 –1040 mm
- > Input voltage: 100–240 V AC/50–60 Hz/1.3 A
- > Nominal voltage: 24 V DC/3.75 A
- > Output voltage: For interior cabinet lighting: 24 V DC/1.2 A
- > Stand-by power consumption: 1 W
- > Radio Frequency: 2.4 GHz
- > Protection class: II
- > Installation: E-Drive unit for screw fixing onto left Free fitting, Push button sender for recess installation in side panel (drill hole Ø 35 mm)

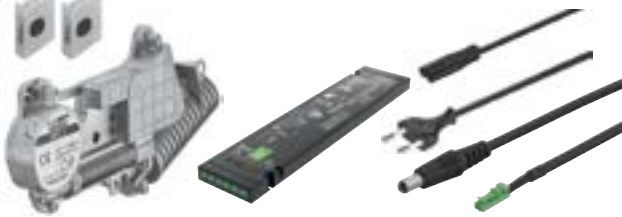


- 1 Free Fold E-Drive Mechanism
- 2a Cover Cap for E-Drive Mechanism
- 2b Cover Cap for Standard Mechanism
- 3 Push Button Switches
- 4 Loox 24V Driver
- 5 Connecting Cable
- 6 Loox Power Supply Cable

FREE FOLD - E-DRIVE

Ordering Information

Sets



| E-Drive Set For Free Fold* | |
|--|-------------|
| For Models | Article No. |
| Applicable for all Free Fold models | 372.38.164 |
| *Consists of: 1 E-Drive Unit, 2 E-Drive Push Button Switches, 1 Loox Driver: 90 W -24V, 1 Loox Power Supply Cable and 1 Connection Cable | |

Unit: 1 Set

| E-Drive Free Fold Cover Cap Set* | | |
|---|------------|------------|
| Anthracite | Grey | White |
| 372.38.168 | 372.38.167 | 372.38.166 |
| *Consists of: 1 Cover Cap for E-Drive (left) and 1 Cover Cap for Standard Fitting (right) | | |

Unit: 1 Set

Individual Components



| Free Fold E-Drive Mechanism Set* | |
|--|-------------|
| For Models | Article No. |
| A - G | 372.37.099 |
| *Consists of: Free Fold E-Drive Mechanism and 2 E-Drive Push Button Switches | |

Unit: 1 Set

| E-Drive Push Button Switches | |
|------------------------------|-------------|
| Finish | Article No. |
| Grey | 372.91.097 |

Unit: 1 Pair

| LOOX 24 V Driver | |
|------------------|-------------|
| Wattage | Article No. |
| 90 W | 833.77.949 |

Unit: 1 Piece

- > Radio frequency: 2.4 GHz
- > Replaceable CR 2032 button cell lithium battery included

- > Only 1 E-Drive unit can be connected to one driver
- > Colour: Black
- > With overload protection
- > Degree of Protection: IP 20



| LOOX Power Supply Cable | | |
|-------------------------|---------|-------------|
| Type of plug | Length | Article No. |
| EU | 2000 mm | 833.89.002 |

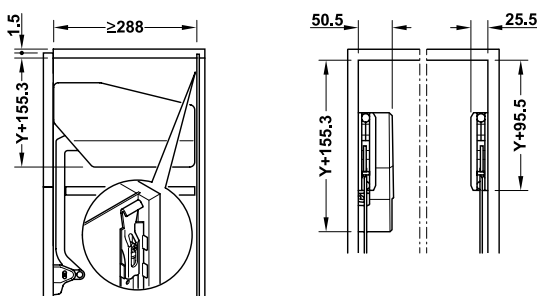
Unit: 1 Piece



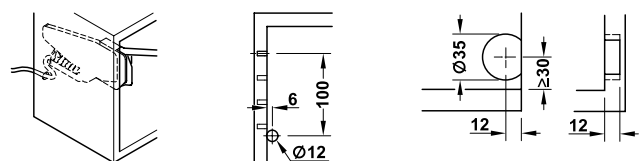
| Connecting Cable | |
|------------------|-------------|
| Length | Article No. |
| 1400 mm | 850.00.022 |

Unit: 1 Piece

Planning and Space Requirement



Cable Guide and Push Button Switch Installation



FREE FOLD - E-DRIVE

Installation and Programming



> The E-Drive drive unit sits on the left-hand fitting. The lead is simply inserted into the drive unit.



> 24 V interior cabinet lighting from the Loox product range can also be operated using the drive unit.
> The light switches on when the flap is opened.



> The push button sender assigning and the programming of other functions take place via a switching button directly on the drive unit. All programming processes are accompanied and acknowledged by visual and acoustic system feedback.

2

Operation



> Opening: The sensor switches, which are usually recessed in the side panels, react to gentle pressure on the flap front.
> They emit a radio signal and the flap moves quietly and automatically to the open position.



> Closing: Pressing the button on the inner surface of the sensor switch sends a radio signal to the drive, which then automatically closes the flap.
> The movement to the closed position takes place quietly and gently.



> The free-swing function integrated in all E-Drive drive units makes effortless manual operation of the flap applications possible.
> The multi-position stop function that is typical of the Free flap fittings ensures that the flap locks securely in any position.

Free Lift Systems



SCAN ME





FREE SWING

FREE SWING

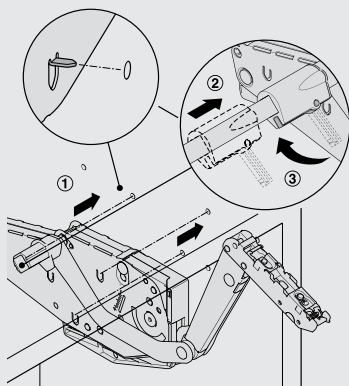


Highest Operating Convenience



- > Minimum opening resistance
- > Flap locks in any position (multi-position stop)
- > Smooth, soft closing movement

Quick Fixing System



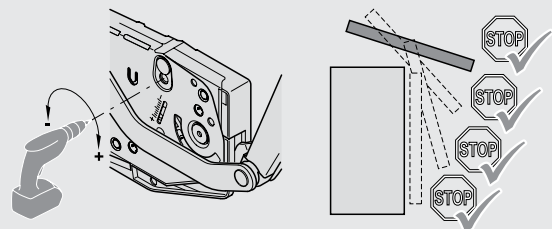
- ① Fit the lift mechanism in place onto the pre-drilled side panel with the help of the built-in positioning pins and tighten the pre-mounted euro screws
- ②-③ Insert cross bar and secure it with cross bar connectors
- ④ Fit and engage the front panel onto the Free Swing mechanism arms

- > For one-piece flaps made from wood or with aluminium frame
- > Ideal for large flaps
- > Swivels around cornice profiles and surface mounted lights
- > Full access to the cabinet contents
- > Stylish and compact design
- > Minimum opening resistance, multi-position stop function and integrated soft opening and soft closing mechanisms for extremely pleasant operating feeling
- > Adaptable E-Drive for an electrically operated comfort solution

Technical Specifications

- > Material: Fitting: Plastic, steel, Cover cap: Plastic
- > Finish/colour: Fitting: Nickel plated, Cover cap: Grey, white or anthracite
- > Maximum cabinet height: 800 mm
- > Minimum cabinet depth: 273 mm
- > Maximum cabinet width: 1800 mm (with 4 mechanisms)
- > Adjustment facility: Height adjustment ± 1.5 mm, side adjustment ± 1.5 mm, tilting angle $\pm 1.5^\circ$, Weight balancing adjustment
- > Installation: Fitting: for screw fixing on pre-drilled side panel with pre-mounted Euro screws and built-in positioning pins, Front Panel: Tool-free assembly (clip system) onto pre-mounted screw-on brackets of the mechanism arms

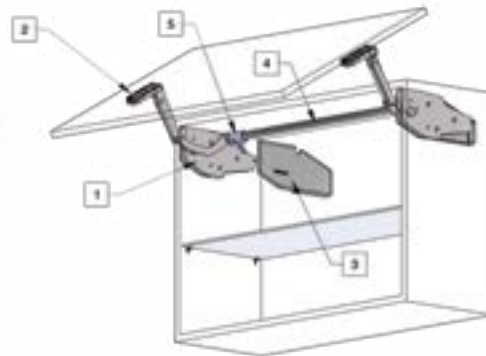
Weight Balancing Adjustment of Fitting



- > Insert PZ2 screwdriver all the way into the opening.
- > Set the cordless screwdriver on low speed torque.
- > Ensure the same weight balancing adjustment is done on both sides (left and right).

FREE SWING

Product Specification



- 1 Free Swing Lift System
- 2 Front Fixing Brackets
- 3 Cover Caps
- 4 Cross Stabilisation Bar
- 5 Cross Bar Connectors

Mechanism Selection Table & Ordering Information

Standard Configuration Sets & Components

| Free Swing Sets* | | | |
|------------------|--------------------|--------------------|-------------|
| Model | Cabinet Height(mm) | Flap Weight(in kg) | Article No. |
| S1Sw | 370-500 | 1.8-4 | 372.38.139 |
| S2sw | 500-670 | 2.5-5.9 | 372.38.142 |
| S3sw | 670-800 | 2.9-6.5 | 372.38.143 |
| S4sw | 370-500 | 3-6.5 | 372.38.140 |
| S5sw | 500-670 | 4.5-10 | 372.38.146 |
| S6sw | 670-800 | 5.3-11.3 | 372.38.144 |
| S7sw | 370-500 | 4.5-10.3 | 372.38.141 |
| S8sw | 500-670 | 7-15.9 | 372.38.147 |
| S9sw | 670-800 | 8-17.1 | 372.38.145 |

*Consist of: Free Swing Lift Mechanism - Left and Right, 2 Front Fixing Brackets for Wooden Front Panels or Front Panels with Wide Aluminium Frame (Min. Frame Width: 45 mm), 2 Cross Bar Connectors and Paper Template

2

Free Lift Systems



| Cover Caps | | | |
|------------|------------|------------|------------|
| Material | Anthracite | Grey | White |
| Plastic | 372.38.148 | 372.38.149 | 372.38.150 |

Unit: 1 Pair



| Narrow Aluminium Frame Adapters | |
|---------------------------------|-------------|
| Finish | Article No. |
| Nickel plated | 372.91.599 |

Note Unit: Pair
Fitting is visible with float and satin frosted glass, passe-partout or obscure glass may therefore be used.



| Cross Bar | | |
|---------------|---------|------------|
| Cabinet Width | Length | Article No |
| 600 mm | 474 mm | 372.38.134 |
| 1200 mm | 1074 mm | 372.38.138 |

Unit: 1 Piece

- > Area of application: For synchronising both fitting parts
- > Material: Aluminium
- > Finish: Silver coloured anodized
- > Can be cut to size
- > Cutting dimension = internal cabinet width – 88 mm
- > Side panel thickness W: 16/19 mm

- > Area of application: For connecting narrow aluminium frames to front fixing brackets
- > For flaps with 20 mm aluminium frame
- > Material: Zinc alloy
- > Fixing material supplied
- > Mounting: For left or right hand use

FREE SWING

Ordering Information

Individual Components



| Model | Cabinet Height (mm) | Flap Weight (kg) | Left | Right |
|-------|---------------------|------------------|------------|------------|
| S1sw | 370-500 | 1.8-4 | 372.34.600 | |
| S2sw | 500-670 | 2.5-5.9 | 372.34.610 | |
| S3sw | 670-800 | 2.9-6.5 | 372.34.620 | |
| S4sw | 370-500 | 3-6.5 | 372.34.601 | |
| S5sw | 500-670 | 4.5-10 | 372.38.213 | 372.38.212 |
| S6sw | 670-800 | 5.3-11.3 | 372.34.621 | |
| S7sw | 370-500 | 4.5-10.3 | 372.34.602 | |
| S8sw | 500-670 | 7-15.9 | 372.38.215 | 372.38.214 |
| S9sw | 670-800 | 8-17.1 | 372.34.622 | |

Unit: 1 Piece / Pair

| Front Fixing Brackets | |
|-----------------------|-------------|
| Fixing | Article No. |
| Screw-on | 372.56.560 |

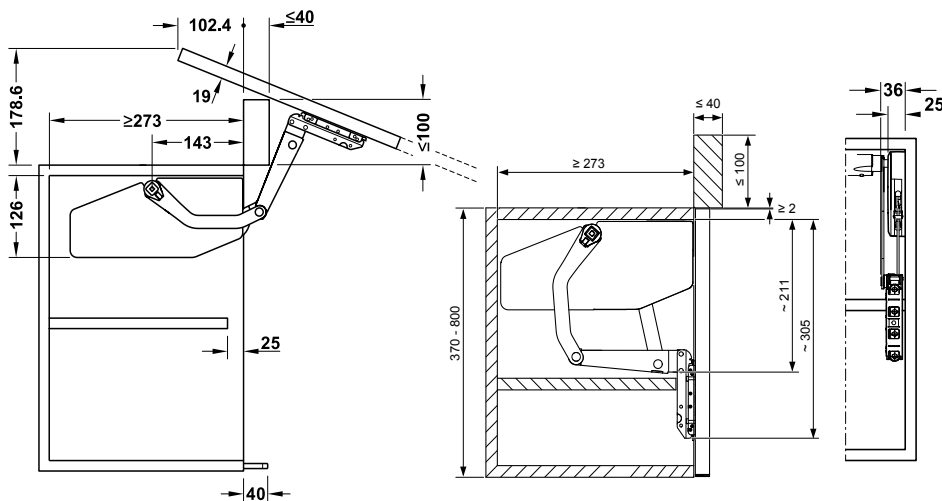
Unit: 1 Pair



| Cross Bar Connector | |
|---------------------|------------|
| Colour | Article No |
| Light Grey | 372.38.218 |

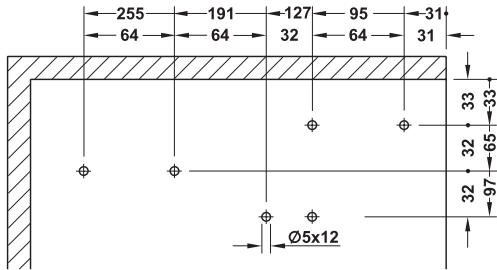
Unit: 1 Piece

Planning and Space Requirement



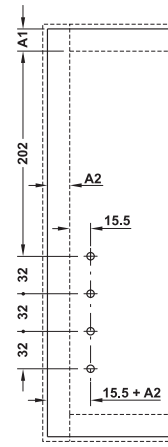
FREE SWING

Carcase Drilling Positions

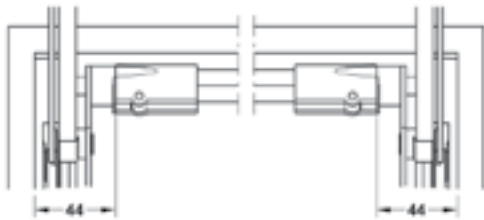


Front Panel Drilling Positions

Wooden / Wide Aluminium Framed Panel

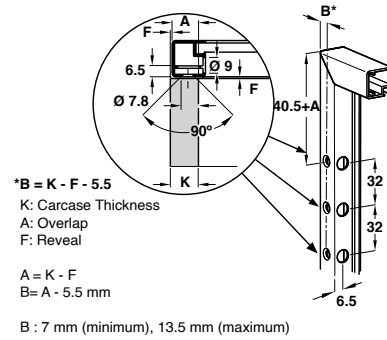


Cross Bar Installation

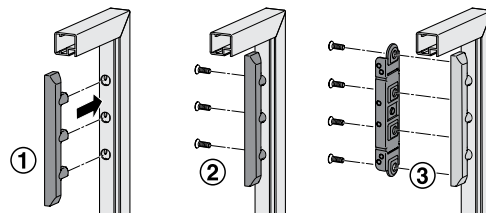


Cutting dimension = internal cabinet width – 88 mm

Narrow Aluminium Framed Panel



Installation



SCAN ME

FREE SWING - E-DRIVE

- > **Free E-Drive is Häfele's electro-mechanical movement assistance for the entire application area of the Free flap fitting family**
- > The electrical drive solution is perfectly coordinated with all Free Lift Systems
- > Standard programming and operating functions for all Free E applications
- > The installation position and the range of applications of the Free Swing fittings remain unchanged
- > Component installation can be done practically without tools
- > The E-Drive unit can be retrofitted at any time to the standard mechanical fitting
- > Extremely quiet and smooth running
- > With integrated free-swing function for effortless manual operation of the flap (even in the event of a power failure)
- > Automatic safety stop function interrupts the opening or closing movement if obstacles are detected
- > Parallel connection for up to three drive units, collision avoidance with cross-corner installations and temporary disabling of the drive to clean the flap fronts can also be programmed (optional)

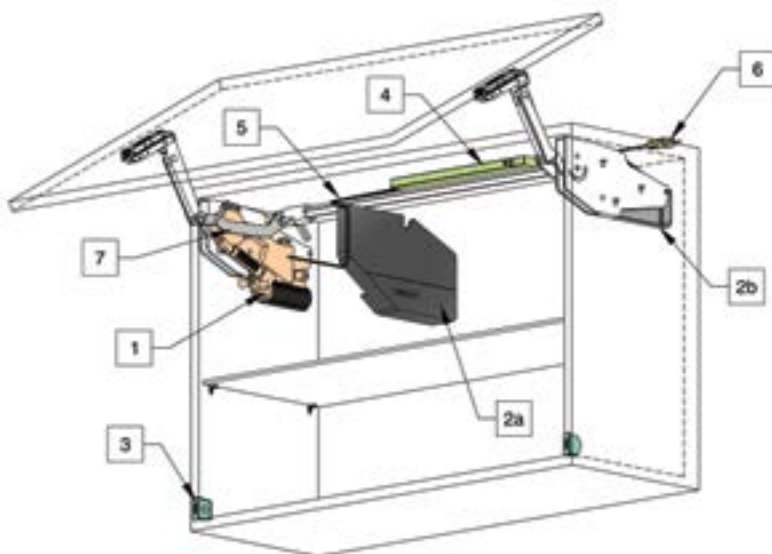


2

Free Lift Systems



- > Material: Fitting: Steel, Cover cap: Plastic, Drive housing: Zinc alloy
- > Finish/colour: Fitting: Nickel plated, Cover caps: Grey, white or anthracite
- > For cabinet height: 370–800 mm
- > For flap width: <1,200 mm (>1,200 mm = 2 sets)
- > Input voltage: 100–240 V AC/50–60 Hz/1.3 A
- > Nominal voltage: 24 V DC/3.75 A
- > Output voltage: For interior cabinet lighting: 24 V DC/1.2 A
- > Stand-by power consumption: 1 W
- > Radio frequency: 2.4 GHz
- > Protection class: II
- > Installation: E-Drive unit for screw fixing onto left Free fitting, Push button sender for recess installation in side panel (drill hole Ø 35 mm)



- 1 Free Swing E-Drive Mechanism
- 2a Cover Cap for E-Drive Mechanism
- 2b Cover Cap for Standard Mechanism
- 3 Push Button Switches
- 4 Loox 24V Driver
- 5 Connecting Cable
- 6 Loox Power Supply Cable
- 7 Free Swing E Drive Lever Arm

FREE SWING - E-DRIVE

Ordering Information

Sets



| E-Drive Set For Free Swing* | |
|---|-------------|
| For Models | Article No. |
| Applicable for all Free Swing models | 372.38.164 |
| *Consists of: 1 E-Drive Unit, 2 E-Drive Push Button Switches, 1 Loox Driver: 90 W – 24V, 1 Loox Power Supply Cable and 1 Connection Cable | |



| Free Swing E Drive Cover Cap Set* | | |
|--|------------|------------|
| Anthracite | White | Grey |
| 372.38.168 | 372.38.169 | 372.38.170 |
| *Consists of: 1 Cover Cap for E-drive (left), 1 Cover Cap for Standard Fitting (right) and 1 E-Drive Lever Arm | | |

Unit: 1 Set

2

Individual Components



| E Drive Free Swing Cover Cap Set* | | |
|---|------------|------------|
| Anthracite | White | Grey |
| 372.37.085 | 372.34.085 | 372.34.080 |
| *Consists of: 1 Cover Cap for E-drive (left) and 1 Cover Cap for Standard Fitting (right) | | |

Unit: 1 Pair



| Free Swing E Drive Lever Arm | |
|------------------------------|------------|
| Article No. | |
| | 372.34.090 |

Unit: 1 Piece



| Free Swing E-Drive Mechanism Set* | |
|---|-------------|
| For Models | Article No. |
| All Free Swing models | 372.37.099 |
| *Consists of: Free Swing E-Drive Mechanism and 2 E-Drive Push Button Switches | |

Unit: 1 Set

| E-Drive Push Button Switches | |
|------------------------------|-------------|
| Finish | Article No. |
| Grey | 372.91.097 |

Unit: 1 Pair

- > Radio frequency: 2.4 GHz
- > Replaceable CR 2032 button cell lithium battery included

| LOOX 24 V Driver | |
|------------------|-------------|
| Wattage | Article No. |
| 90 W | 833.77.949 |

Unit: 1 Piece

- > Only 1 E-drive unit can be connected to one driver
- > Colour: Black
- > With overload protection
- > Degree of Protection: IP 20



| LOOX Power Supply Cable | | |
|-------------------------|---------|-------------|
| Type of plug | Length | Article No. |
| EU | 2000 mm | 833.89.002 |

Unit: 1 Piece

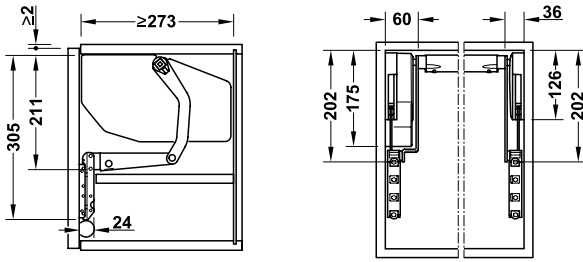


| Connecting Cable | |
|------------------|-------------|
| Length | Article No. |
| 1400 mm | 850.00.022 |

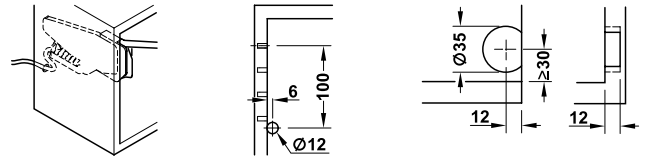
Unit: 1 Piece

FREE SWING - E-DRIVE

Planning and Space Requirement



Cable Guide and Push Button Switch Installation



Installation and Programming

2



> The E-Drive drive unit sits on the left-hand fitting. The lead is simply inserted into the drive unit.



> 24 V interior cabinet lighting from the Loox product range can also be operated using the drive unit.
> The light switches on when the flap is opened.



> The push button sender assigning and the programming of other functions take place via a switching button directly on the drive unit. All programming processes are accompanied and acknowledged by visual and acoustic system feedback.

Operation



> Opening: The sensor switches, which are usually recessed in the side panels, react to gentle pressure on the flap front.
> They emit a radio signal and the flap moves quietly and automatically to the open position.



> Closing: Pressing the button on the inner surface of the sensor switch sends a radio signal to the drive, which then automatically closes the flap.
> The movement to the closed position takes place quietly and gently.



> The free-swing function integrated in all E-Drive drive units makes effortless manual operation of the flap applications possible.
> The multi-position stop function that is typical of the Free flap fittings ensures that the flap locks securely in any position.



SCAN ME







FREE UP

FREE UP

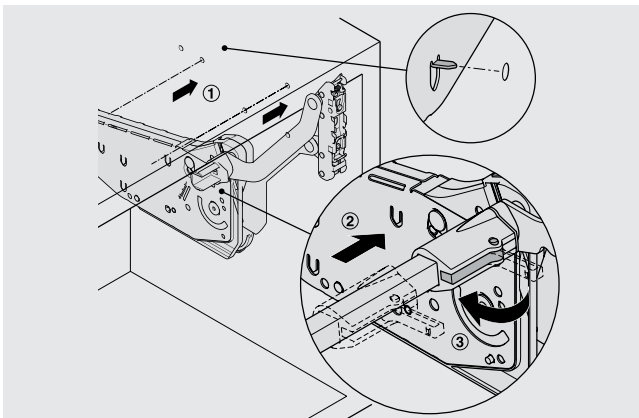


Highest Operating Convenience



- > Minimum opening resistance
- > Flap locks in any position (multi-position stop)
- > Smooth, soft closing movement

Quick Fixing System



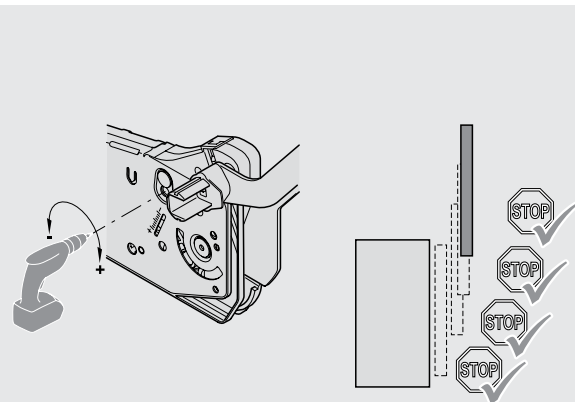
- ① Fit the lift mechanism in place onto the pre-drilled side panel with the help of the built-in positioning pins and tighten the pre-mounted euro screws
- ②-③ Insert cross bar and secure it with the cross bar connectors
- ④ Fit and engage the front panel onto the Free Up mechanism arms

- > For one-piece flaps made from wood or with aluminium frame
- > Can be used in combination with upper-mounted cabinets or front panels
- > Creates practical “niches” in tall cabinets, e.g. for electrical equipment
- > Cabinet contents are extremely easy to access
- > Excellent side stability
- > Minimum opening resistance, multi-position stop function and integrated soft opening and soft closing mechanisms for extremely pleasant operating feeling
- > Adaptable E-Drive for an electrically operated comfort solution
- > Stylish and compact design

Technical Specifications

- > Material: Fitting: Plastic, steel, Cover cap: Plastic
- > Finish/colour: Fitting: Nickel plated, Cover cap: Grey, white or anthracite
- > Maximum cabinet height: 600 mm
- > Minimum cabinet depth: 277 mm
- > Maximum cabinet width: 1800 mm (with 4 mechanisms)
- > Adjustment facility: Height adjustment ± 1.5 mm, side adjustment ± 1.5 mm, tilting angle $\pm 1.5^\circ$, weight balancing adjustment facility
- > Installation: Fitting: for screw fixing on pre-drilled side panel with pre-mounted Euro screws and built-in positioning pins, Front Panel: Tool-free assembly (clip system) onto pre-mounted screw-on brackets of the mechanism arms

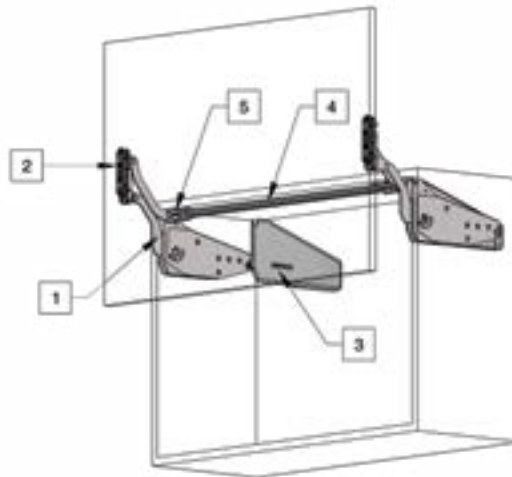
Weight Balancing Adjustment of Fitting



- > Insert PZ2 screwdriver all the way into the opening.
- > Set the cordless screwdriver on low speed torque.
- > Ensure the same weight balancing adjustment is carried out on both sides (left and right).

FREE UP

Product Specification



- 1 Free Up Lift System
- 2 Front Fixing Brackets
- 3 Cover Caps
- 4 Cross Stabilisation Bar
- 5 Cross Bar Connectors

2

Mechanism Selection Table & Ordering Information

Standard Configuration Sets & Components

| Free Up Sets* | | | |
|---------------|--------------------|--------------------|-------------|
| Model | Cabinet Height(mm) | Flap Weight(in kg) | Article No. |
| P1us | 345-420 | 2.4-4.8 | 372.38.123 |
| P2us | 345-420 | 4.1-8 | 372.38.124 |
| P3us | 345-420 | 7.4-14 | 372.38.127 |
| Q1us | 380-500 | 2.0-3.8 | 372.38.125 |
| Q2us | 380-500 | 3.4-6.7 | 372.38.126 |
| Q3us | 380-500 | 6.3-11.8 | 372.38.128 |
| Q4us | 380-500 | 9.3-17.4 | 372.38.129 |
| R1us | 430-600 | 1.6-3.3 | 372.38.130 |
| R2us | 430-600 | 2.6-5.5 | 372.38.131 |
| R3us | 430-600 | 5.0-9.7 | 372.38.132 |
| R4us | 430-600 | 7.4-14.6 | 372.38.133 |

Consists of: Free Up Lift Mechanism - Left and Right, 2 Front Fixing Brackets for Wooden Front Panels or Front Panels with Wide Aluminium Frame (Min. Frame Width: 45 mm), 2 Cross Bar Connectors and Paper Template

Free Lift Systems



| Cover Caps | | | |
|------------|------------|------------|------------|
| Material | Anthracite | Grey | White |
| Plastic | 372.38.135 | 372.38.136 | 372.38.137 |

Unit: 1 Pair



| Narrow Aluminium Frame Adapters | |
|---------------------------------|-------------|
| Finish | Article No. |
| Nickel plated | 372.91.599 |

Unit: Pair

Note

Fitting is visible with float and satin frosted glass, passe-partout or obscure glass may therefore be used.

- > Area of application: For connecting narrow aluminium frames to front fixing brackets
- > For flaps with 20 mm aluminium frame
- > Material: Zinc alloy
- > Fixing material supplied
- > Mounting: For left or right hand use



| Cross Bar | | |
|---------------|---------|------------|
| Cabinet Width | Length | Article No |
| 600 mm | 474 mm | 372.38.134 |
| 1200 mm | 1074 mm | 372.38.138 |

Unit: 1 Piece

- > Area of application: For synchronising both fitting parts
- > Material: Aluminium
- > Finish: Silver coloured anodized
- > Can be cut to size
- > Cutting dimension = internal cabinet width – 88 mm
- > Side panel thickness W: 16/19 mm



FREE UP

Ordering information

Individual Components

2



| Model | Cabinet Height(mm) | Flap Weight(in kg) | Left | Right |
|-------|--------------------|--------------------|------------|------------|
| P1us | 345-420 | 2.4-4.8 | 372.33.610 | |
| P2us | 345-420 | 4.1-8 | 372.33.611 | |
| P3us | 345-420 | 7.4-14 | 372.33.612 | |
| Q1us | 380-500 | 2.0-3.8 | 372.33.620 | |
| Q2us | 380-500 | 3.4-6.7 | 372.33.621 | |
| Q3us | 380-500 | 6.3-11.8 | 372.38.202 | 372.38.201 |
| Q4us | 380-500 | 9.3-17.4 | 372.38.204 | 372.38.203 |
| R1us | 430-600 | 1.6-3.3 | 372.33.630 | |
| R2us | 430-600 | 2.6-5.5 | 372.33.631 | |
| R3us | 430-600 | 5.0-9.7 | 372.38.206 | 372.38.205 |
| R4us | 430-600 | 7.4-14.6 | 372.38.208 | 372.38.207 |

Unit: 1 Piece / Pair

| Front Fixing Brackets | |
|-----------------------|-------------|
| Fixing | Article No. |
| Screw-on | 372.56.560 |

Unit: 1 Pair

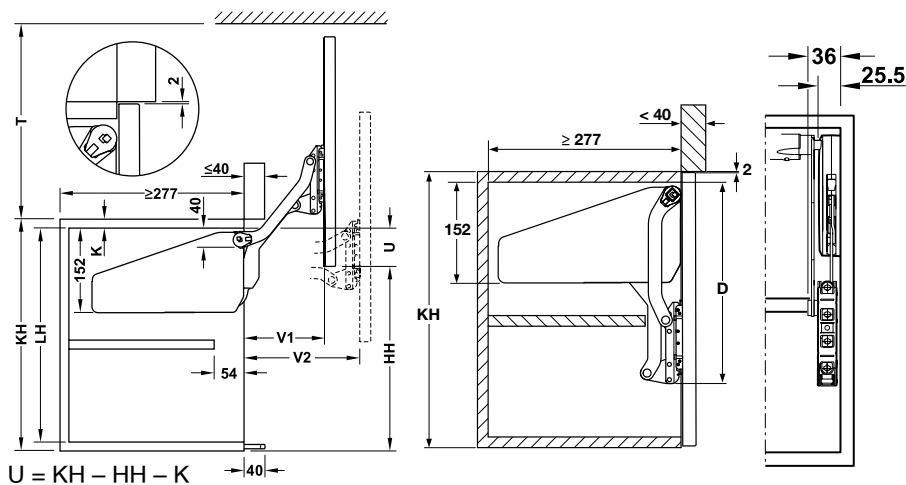


| Cross Bar Connector | |
|---------------------|-------------|
| Colour | Article No. |
| Light Grey | 372.38.218 |

Unit: 1 Piece

Free Lift Systems

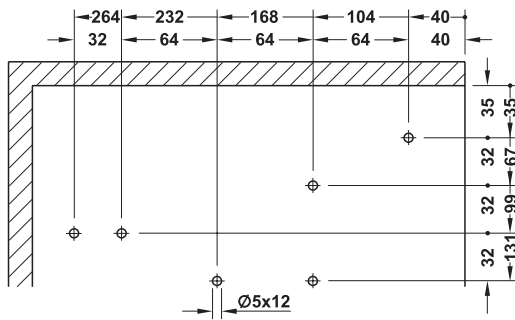
Planning and Space Requirement



| Cabinet height KH mm | D | LH mm | HH mm | T mm | V1 mm | V2 mm |
|----------------------|-------|-------|-------|------|-------|-------|
| 320-360 | 274.5 | >280 | 278 | >281 | 128 | 177 |
| 345-420 | 302.5 | >308 | 328 | >333 | 146 | 205 |
| 380-500 | 337.5 | >343 | 390 | >393 | 168 | 240 |
| 430-600 | 382.5 | >388 | 470 | >473 | 196 | 284 |

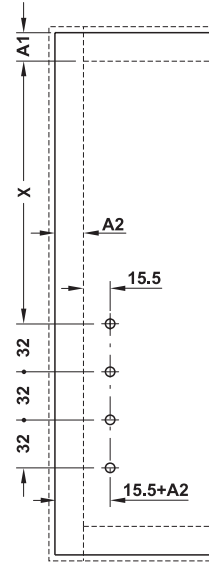
FREE UP

Carcase Drilling Positions

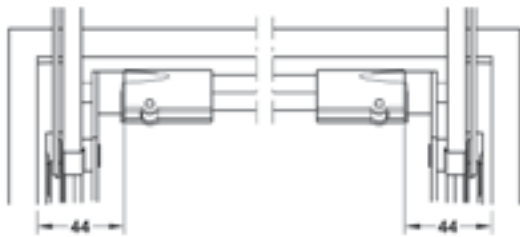


Front Panel Drilling Positions

Wooden / Wide Aluminium Framed Panel

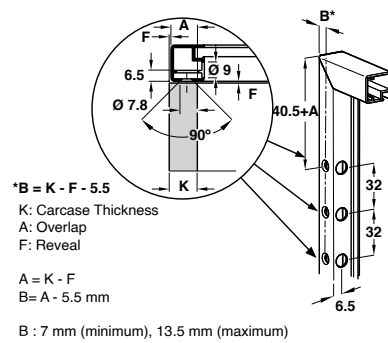


Cross Bar Installation

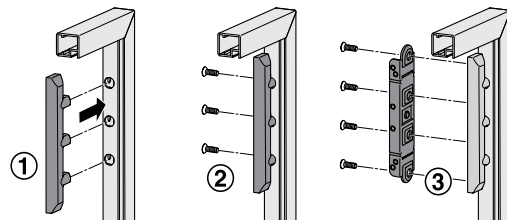


Cutting dimension = internal cabinet width – 88 mm

Narrow Aluminium Framed Panel



Installation



SCAN ME

FREE UP - E-DRIVE

- > **Free E-Drive is Häfele's electro-mechanical movement assistance for the entire application area of the Free flap fitting family**
- > The electrical drive solution is perfectly coordinated with all Free Lift Systems
- > Standard programming and operating functions for all Free E applications
- > The installation position and the range of applications of the Free Up fittings remain unchanged
- > Component installation can be done practically without tools
- > The E-Drive unit can be retrofitted at any time to the standard mechanical fitting
- > Extremely quiet and smooth running
- > With integrated free-swing function for effortless manual operation of the flap (even in the event of a power failure)
- > Automatic safety stop function interrupts the opening or closing movement if obstacles are detected
- > Parallel connection for up to three drive units, collision avoidance with cross-corner installations and temporary disabling of the drive to clean the flap fronts can also be programmed (optional)

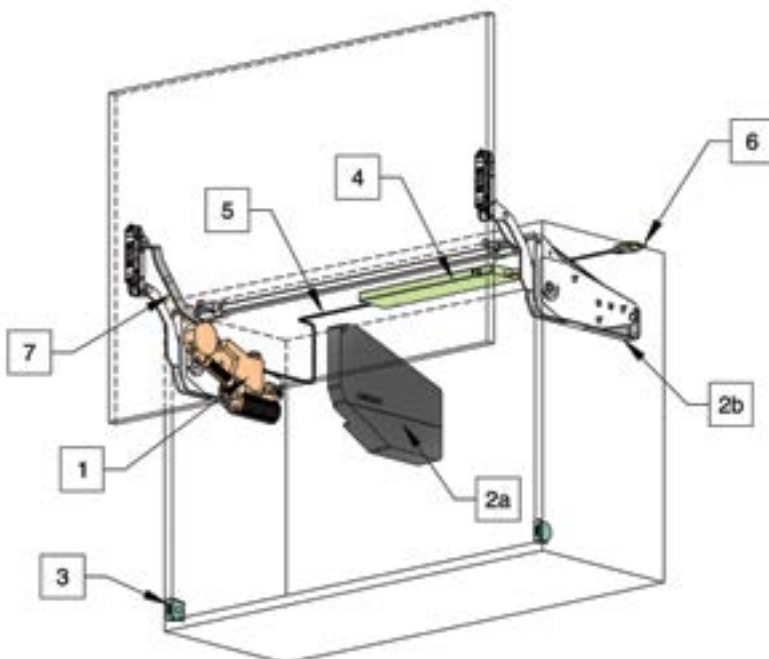


2

Free Lift Systems



- > Material: Fitting: Steel, Cover cap: Plastic, Drive housing: Zinc alloy
- > Finish/colour: Fitting: Nickel plated, Cover caps: Grey, white or anthracite
- > For cabinet height: 345–600 mm
- > For flap width: <1,200 mm (>1,200 mm = 2 sets)
- > Input voltage: 100–240 V AC/50–60 Hz/1.3 A
- > Nominal voltage: 24 V DC/3.75 A
- > Output voltage: For interior cabinet lighting: 24 V DC/1.2 A
- > Stand-by power consumption: 1 W
- > Radio frequency: 2.4 GHz
- > Protection class: II
- > Installation: E-Drive unit for screw fixing onto left Free fitting, Push button sender for recess installation in side panel (drill hole Ø 35 mm)



- 1 Free Swing E-Drive Mechanism
- 2a Cover Cap for E-Drive Mechanism
- 2b Cover Cap for Standard Mechanism
- 3 Push Button Switches
- 4 Loox 24V Driver
- 5 Connecting Cable
- 6 Loox Power Supply Cable
- 7 Free Swing E Drive Lever Arm

FREE UP - E-DRIVE

Ordering Information

Sets



| E-Drive Set For Free Up* | |
|---|-------------|
| For Models | Article No. |
| Applicable for all Free Up models | 372.38.164 |
| *Consists of: 1 E-Drive Unit, 2 E-Drive Push Button Switches, 1 Loox Driver: 90 W - 24V, 1 Loox Power Supply Cable and 1 Connection Cable | |



| Free Up E Drive Cover Cap Set* | | | |
|--|------------|------------|------------|
| Model | Anthracite | White | Grey |
| P | 372.38.177 | 372.38.175 | 372.38.176 |
| Q | 372.38.180 | 372.38.178 | 372.38.179 |
| R | 372.38.183 | 372.38.181 | 372.38.182 |
| *Consists of: 1 Cover Cap for E-Drive (left), 1 Cover Cap for Standard Fitting (right) and 1 E-Drive Lever Arm | | | |

Unit: 1 Set

Individual Components



| E-Drive Free Up Cover Cap Set* | | |
|---|------------|------------|
| Anthracite | White | Grey |
| 372.37.090 | 372.33.085 | 372.33.080 |
| *Consists of: 1 Cover Cap for E-drive (left) and 1 Cover Cap for Standard Fitting (right) | | |

Unit: 1 Set



| E-Drive Free Up Lever Arm | | |
|---------------------------|-----------------------|-------------|
| Model | For cabinet height mm | Article No. |
| P | 345–420 | 372.33.091 |
| Q | 380–500 | 372.33.092 |
| R | 430–600 | 372.33.093 |

Unit: 1 Piece



| Free Up E-Drive Mechanism | |
|--|-------------|
| For Models | Article No. |
| A - G | 372.37.099 |
| *Consists of: Free Up E-Drive Mechanism and 2 E-Drive Push Button Switches | |

Unit: 1 Set



| E-DRIVE Push Button Switches | |
|------------------------------|-------------|
| Finish | Article No. |
| Grey | 372.91.097 |

Unit: 1 Pair

- > Radio frequency: 2.4 GHz
- > Replaceable CR 2032 button cell lithium battery included



| LOOX 24 V Driver | |
|------------------|-------------|
| Wattage | Article No. |
| 90 W | 833.77.949 |

Unit: 1 Piece

- > Only 1 E-Drive unit can be connected to one driver
- > Colour: Black
- > With overload protection
- > Degree of Protection: IP 20



| LOOX Power Supply Cable | | |
|-------------------------|---------|-------------|
| Type of plug | Length | Article No. |
| EU | 2000 mm | 833.89.002 |

Unit: 1 Piece

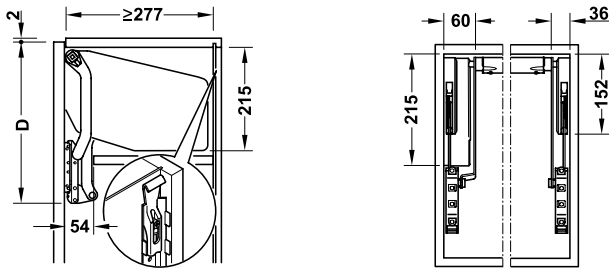


| Connecting Cable | |
|------------------|-------------|
| Length | Article No. |
| 1400 mm | 850.00.022 |

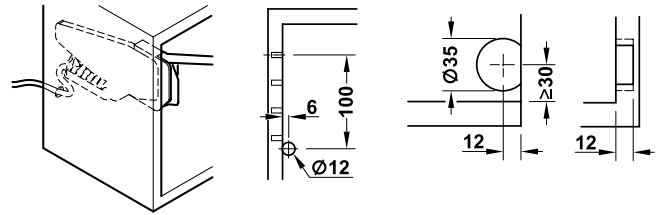
Unit: 1 Piece

FREE UP - E-DRIVE

Planning and Space Requirement



Cable Guide and Push Button Switch Installation



2

Installation and Programming



> The E-Drive drive unit sits on the left-hand fitting. The lead is simply inserted into the drive unit.



> 24 V interior cabinet lighting from the Loox product range can also be operated using the drive unit.
> The light switches on when the flap is opened.



> The push button sender assigning and the programming of other functions take place via a switching button directly on the drive unit. All programming processes are accompanied and acknowledged by visual and acoustic system feedback.

Free Lift Systems

Operation



> Opening: The sensor switches, which are usually recessed in the side panels, react to gentle pressure on the flap front.
> They emit a radio signal and the flap moves quietly and automatically to the open position.



> Closing: Pressing the button on the inner surface of the sensor switch sends a radio signal to the drive, which then automatically closes the flap.
> The movement to the closed position takes place quietly and gently.



> The free-swing function integrated in all E-Drive drive units makes effortless manual operation of the flap applications possible.
> The multi-position stop function that is typical of the Free flap fittings ensures that the flap locks securely in any position.



SCAN ME

