

# 1



# hinges and lift fittings

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# Blum

motion technologies



## BLUMOTION

by Blum

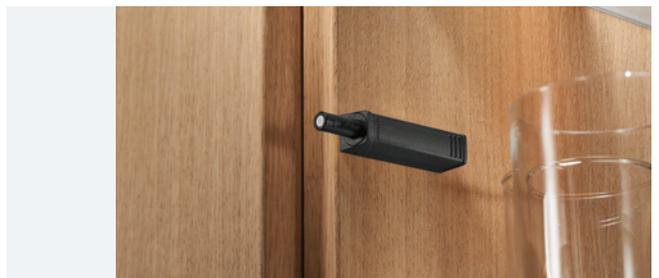
Soft and quiet closing.



## TIP-ON

by Blum

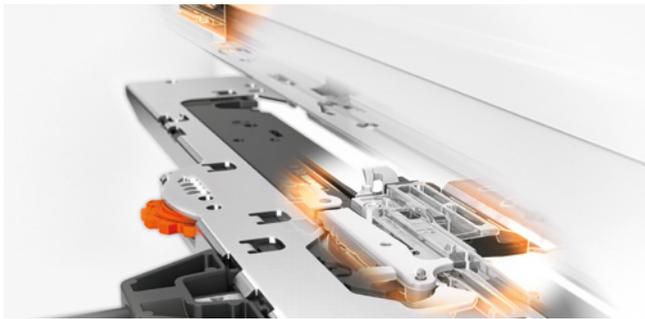
Mechanical opening support, closes with just a light push.





**TIP-ON  
BLUMOTION**  
by Blum

Mechanical opening support system,  
in combination with BLUMOTION.



**SERVO-DRIVE**  
by Blum

Electric opening support,  
combined  
with BLUMOTION.

- The SERVO-DRIVE support system provides automatic opening of lifts or pull-outs using electrical motion intelligent units.





# Hinge systems overview



110°	With soft closing With spring TIP-ON	p. 1.9–1.10	
ONYX	With soft closing With spring TIP-ON	p. 1.11–1.14	
Blind corner full overlay	With soft closing With spring	p. 1.15	
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<p>Thick doors</p>	<p>With soft closing With spring TIP-ON</p> <p>p. 117</p>	
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<p>170°</p>	<p>With spring TIP-ON</p> <p>p. 119</p>	
<p>Folding doors of a corner cabinet</p>	<p>With spring</p> <p>p. 119</p>	



# Overview of hinge types



95° doors with aluminium frames	With soft closing	p. 1.20	
95° doors with aluminium frames	With spring TIP-ON	p. 1.20	
Glass doors	With spring	p. 1.21	
Mini	With spring	p. 1.21	
CRISTALLO	With soft closing With spring TIP-ON	p. 1.22	



<p>CRISTALLO glass cases</p>	<p>With soft closing With spring TIP-ON</p> <p>p. 1.22</p>	
<p>Overlapping fronts</p>	<p>With soft closing</p> <p>p. 1.22</p>	
<p>Thin materials</p>	<p>With soft closing With spring TIP-ON</p> <p>p. 1.23</p>	
<p>Angled</p>	<p>With soft closing With spring TIP-ON</p> <p>p. 1.28–1.30</p>	
<p>For a built-in refrigerator</p>	<p>With spring</p> <p>p. 1.33</p>	



# CLIP top 110°

Did you know that the durability of the Blum hinges is guaranteed for 200,000 opening and closing movements? This is a durability of more than 54 years with ten openings every day.



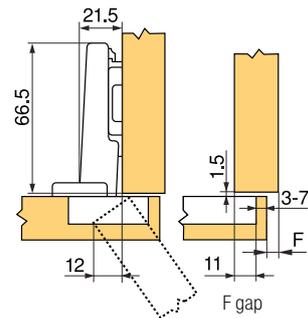
## Hinges Full overlay

code	Blum code	motion	cup mounting
<b>12047</b>	71B3550	with BLUMOTION	screw
<b>12064</b>	71B358E	with BLUMOTION	EXPANDO
<b>131807</b>	71B3590	with BLUMOTION	INSERTA
<b>177391</b>	71B3580	with BLUMOTION	pressing-in
<b>12052</b>	71T3550	with spring	screw
<b>118142</b>	71T358E	with spring	EXPANDO
<b>157369</b>	71T3590	with spring	INSERTA
<b>203404</b>	71T3580	with spring	pressing-in
<b>226668</b>	70T3550.TL	unsprung	screw
<b>226669</b>	70T358E.TL	unsprung	EXPANDO
<b>177369</b>	70T3590.TL	unsprung	INSERTA



12047

Full overlay doors



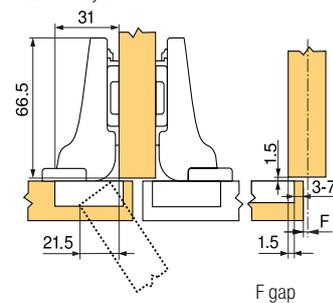
## Half overlay

code	Blum code	motion	cup mounting
<b>12048</b>	71B3650	with BLUMOTION	screw
<b>12065</b>	71B368E	with BLUMOTION	EXPANDO
<b>177395</b>	71B3690	with BLUMOTION	INSERTA
<b>177394</b>	71B3680	with BLUMOTION	pressing-in
<b>12053</b>	71T3650	with spring	screw
<b>118143</b>	71T368E	with spring	EXPANDO
<b>177409</b>	71T3690	with spring	INSERTA
<b>177408</b>	71T3680	with spring	pressing-in
<b>226670</b>	70T3650.TL	unsprung	screw
<b>177372</b>	70T3690.TL	unsprung	INSERTA



12048

Half overlay doors



- drilling depth for a cup 13 mm
- cup diameter 35 mm, hinge arm length 66.5–68 mm
- 110° opening angle
- door thickness from 16 to 26 mm
- option to offset the cup 3 to 7 mm from the edge
- drilling for Expando (Inserta) 45/9.5 mm pitch / 8 mm diameter; use Ecodrill for assembly p. 1.35
- for further information, see the Blum catalogue

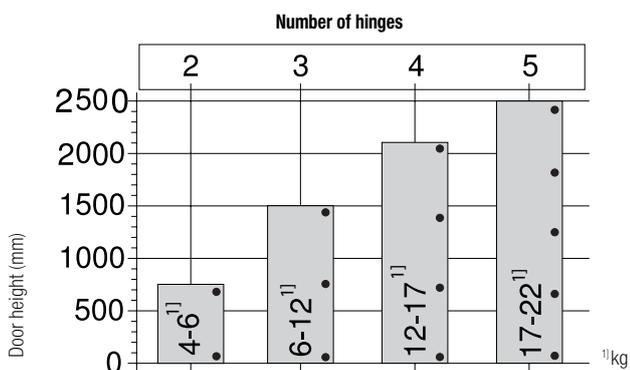
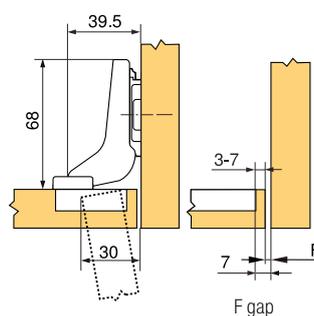

**Inset**

code	Blum code	motion	cup mounting
<b>12049</b>	71B3750	with BLUMOTION	screw
<b>12066</b>	71B378E	with BLUMOTION	EXPANDO
<b>177398</b>	71B3790	with BLUMOTION	INSERTA
<b>177397</b>	71B3780	with BLUMOTION	pressing-in
<b>12059</b>	71T3750	with spring	screw
<b>118144</b>	71T378E	with spring	EXPANDO
<b>177411</b>	71T3790	with spring	INSERTA
<b>177410</b>	71T3780	with spring	pressing-in
<b>226671</b>	70T3750.TL	unsprung	screw
<b>177374</b>	70T3790.TL	unsprung	INSERTA



12049

Inset doors



- ❶ The number of hinges depends on the weight and height of the front.
- ❷ In order to achieve good stability, hinges should be placed as far apart as possible.
- ❸ The loading and height data refer to a 600 mm wide door.

**ACCESSORIES**

code	Blum code	description
<b>12196</b>	80.0582E	EXPANDO dowel, 8 mm
<b>12198</b>	621.1300	screw for the EXPANDO dowel
<b>14144</b>	174E6102.03	EXPANDO dowel, 5 mm
<b>12039</b>	70T3553	86° opening angle stop
<b>12042</b>	70T3504	cover cap of the cup
<b>12093</b>	70.1503	arm cover cap for full overlay hinge
<b>12011</b>	70.1663	arm cover cap for half overlay and inset hinge
<b>268987</b>	70T3507.21	distance plate for the hinges cup
<b>13681</b>	660.0950	screw for a wide aluminium frame



12039



12011



12042



12039

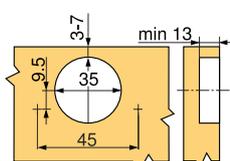


12093

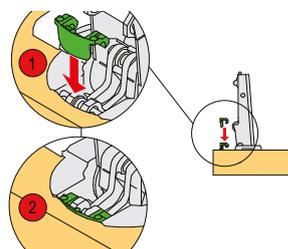
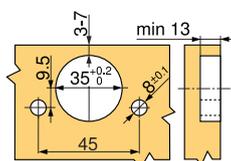


268987

Mounting



INSERTA mounting / knock-in / exp.



- 📦 recommended plates: 203387, 211476, 12323, 12326, 12306, 12318, 12340, 12302, p. 127
- 📦 accessories for TIP-ON p. 126



## CLIP top ONYX

**Style over design:**

Dark-coloured furniture is filled with pure and decent elegance – both inside and outside.

CLIP top BLUMOTION in ONYX black colour harmoniously incorporates into the furniture and sets a striking, impressive tone.

For greater freedom in version and arrangement of above-standard furniture, design without compromises.



### 110°

**Full overlay**

code	Blum code	motion	cup mounting
<b>306317</b>	71B3550	with BLUMOTION	screw
<b>347092</b>	71B3590	with BLUMOTION	INSERTA
<b>347095</b>	71B3580	with BLUMOTION	pressing-in

**Half overlay**

<b>306318</b>	71B3650	with BLUMOTION	screw
<b>347093</b>	71B3690	with BLUMOTION	INSERTA

**Inset**

<b>306319</b>	71B3750	with BLUMOTION	screw
<b>347094</b>	71B3790	with BLUMOTION	INSERTA

### 107°

**Full overlay**

code	Blum code	motion	cup mounting
<b>347096</b>	75B1550	with BLUMOTION	screw

**Half overlay**

<b>347097</b>	75B1650	with BLUMOTION	screw
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**Inset**

<b>347098</b>	75B1750	with BLUMOTION	screw
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### For thick doors 95°

**Full overlay**

code	Blum code	motion	cup mounting
<b>347102</b>	71B9550	with BLUMOTION	screw
<b>347099</b>	71B9590	with BLUMOTION	INSERTA
<b>347105</b>	71B9580	with BLUMOTION	pressing-in

**Half overlay**

<b>347103</b>	71B9650	with BLUMOTION	screw
<b>347100</b>	71B9690	with BLUMOTION	INSERTA

**Inset**

<b>347104</b>	71B9750	with BLUMOTION	screw
<b>347101</b>	71B9790	with BLUMOTION	INSERTA





## Blind corner 95°

### Inset

code	Blum code	motion	cup mounting
<b>306327</b>	79B9550	with BLUMOTION	screw
<b>347106</b>	79B9590	with BLUMOTION	INSERTA
<b>347107</b>	79B9580	with BLUMOTION	pressing-in



## 155° with BLUMOTION

### Full overlay

code	Blum code	motion	cup mounting
<b>347941</b>	71B7550	with BLUMOTION	screw
<b>347943</b>	71B7590	with BLUMOTION	INSERTA
<b>347945</b>	70T7550.TL	unsprung	screw
<b>347946</b>	70T7590.TL	unsprung	INSERTA



### Half overlay

code	Blum code	motion	cup mounting
<b>347944</b>	71B7690	with BLUMOTION	INSERTA

## Angled

### Full overlay

code	Blum code	motion	cup mounting
<b>347108</b>	79B9494	with BLUMOTION	INSERTA; type III 15/95°
<b>347109</b>	79B9596	with BLUMOTION	INSERTA; type II 30/95°
<b>347111</b>	79B3598	with BLUMOTION	INSERTA; type II 45/95°

### Half overlay

code	Blum code	motion	cup mounting
<b>347110</b>	79B9698	with BLUMOTION	INSERTA; type I 45/95°





**Narrow aluminium frame**

Full overlay

code	Blum code	motion	cup mounting
<b>306329</b>	71T950A	with spring	screw



**CRISTALLO with BLUMOTION**

Full overlay

code	Blum code	motion	cup mounting
<b>347969</b>	71B4500C	with BLUMOTION	for gluing on glass



**TIP-ON for thick doors 95°**

Full overlay

code	Blum code	motion	cup mounting
<b>318173</b>	70T9550	unsprung	screw
<b>347115</b>	70T9590BTL	unsprung	INSERTA
<b>347119</b>	70T9580.TL	unsprung	pressing-in



Half overlay

code	Blum code	motion	cup mounting
<b>335544</b>	70T9650.TL	unsprung	screw
<b>347116</b>	70T9690BTL	unsprung	INSERTA

Inset

code	Blum code	motion	cup mounting
<b>347118</b>	70T9750.TL	unsprung	screw
<b>347117</b>	70T9790BTL	unsprung	INSERTA



## Mounting plates

### Horizontal

code	Blum code	height	cup mounting
<b>306320</b>	175H3100	8.5 mm	screw
<b>347122</b>	177H3100	8.5 mm	pressing-in
<b>347121</b>	175H3130	11.5 mm	screw
<b>347123</b>	177H3130	11.5 mm	pressing-in

### Cruciform

code	Blum code	height	cup mounting
<b>347124</b>	174H7100E	8.5 mm	EXPANDO
<b>347125</b>	174H7130E	11.5 mm	EXPANDO
<b>347126</b>	175H9160	14.5 mm	euro screw

### ACCESSORIES

code	Blum code	description
<b>306321</b>	70.1503	arm cover cap, without logo, ONYX
<b>306322</b>	70T3504	cover cap of the cup with integrated soft closing, ONYX

code	Blum code	description
<b>306326</b>	70.1553	arm cover cap, without logo, ONYX
<b>347127</b>	70T1504	cover cap of the cup for CLIP, ONYX
<b>309046</b>	-	screw 3.5 × 16, black zinc

accessories for TIP-ON p. 1.26





## CLIP top blind corner

### Full overlay

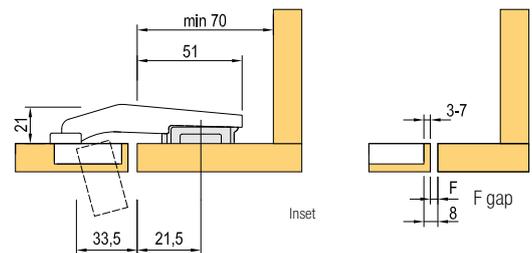
code	Blum code	motion	cup mounting
<b>203405</b>	79B9950	with BLUMOTION	screw
<b>12083</b>	79T9950	with spring	screw

• hinges with and without soft closing cannot be combined

### Inset

code	Blum code	motion	cup mounting
<b>118122</b>	79B9550	with BLUMOTION	screw
<b>13070</b>	79T9550	with spring	screw
<b>12079</b>	79T958E	with spring	EXPANDO
<b>166071</b>	78T9550.TL	TIP-ON	screw

- hinges with and without soft closing cannot be combined
- the plate for the full overlay hinge is dependent on the strength of the cabinet body material – see the table below
- the plate for inset hinges should be raised by 3 mm – e.g. 12341, 12303
- drilling depth for a cup 13 mm (12.3 mm without soft closing)
- cup diameter 35 mm
- minimum inner dimension of blind corner, door 70 mm (inset), 86 mm (full overlay)
- 95° opening angle
- door thickness from 16 to 28 mm
- option to offset the cup 3 to 7 mm from the edge
- drilling a hole for EXPANDO 45 / 9.5 mm pitch / 8 mm diameter
- for further information, see the Blum catalogue



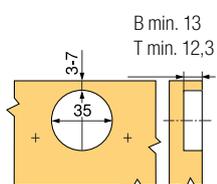
### ACCESSORIES

code	Blum code	description
<b>12042</b>	70T3504	cover cap of the cup
<b>12093</b>	70.1503	arm cover cap

## Plates for blind corner hinge – full overlay

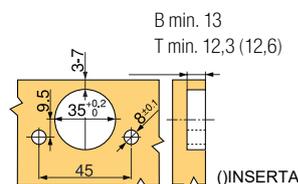
cabinet body frame thickness (RS)	raising of mounting plates	example of a mounting plate
16 mm	6 mm	<b>12319</b>
19 mm	3 mm	<b>12341</b>
22 mm	0 mm	<b>12340</b>

### Screw-on mounting

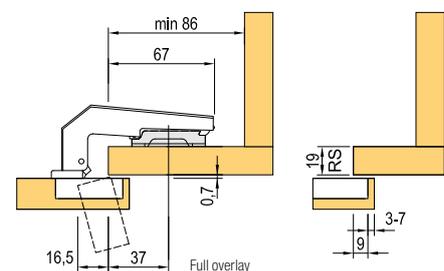


**B** CLIP top BLUMOTION  
**T** CLIP top

### INSERTA mounting / knock-in / exp.



()INSERTA

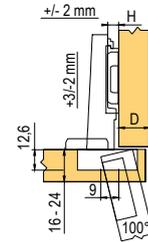




## CLIP top 100°

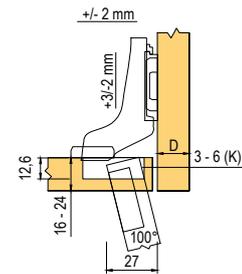
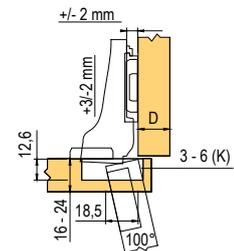
### Full overlay

code	Blum code	motion	cup mounting
<b>12002</b>	71M2550	with spring	screw
<b>12050</b>	71M258E	with spring	EXPANDO
<b>12004</b>	71M2590B	with spring	INSERTA
<b>177364</b>	70M2550.TL	unsprung	screw
<b>171076</b>	70M2580.TL	unsprung	pressing-in



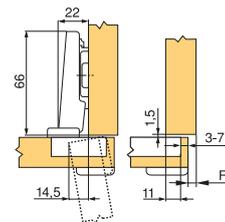
### Half overlay

code	Blum code	motion	cup mounting
<b>12005</b>	71M2650	with spring	screw
<b>12051</b>	71M268E	with spring	EXPANDO
<b>12006</b>	71M2690B	with spring	INSERTA
<b>224239</b>	70M2650.TL	unsprung	screw
<b>177365</b>	70M2680.TL	unsprung	pressing-in



### Inset

code	Blum code	motion	cup mounting
<b>12008</b>	71M2750	with spring	screw
<b>12007</b>	71M278E	with spring	EXPANDO
<b>12010</b>	71M2790B	with spring	INSERTA
<b>224240</b>	70M2750.TL	unsprung	screw
<b>177366</b>	70M2780.TL	unsprung	pressing-in



### ACCESSORIES

code	Blum code	description
<b>12271</b>	90M2503	arm cover cap for full overlay hinge
<b>12274</b>	94M3603	hinge arm cover cap for half overlay and inset hinge
<b>12391</b>	973A0500	BLUMOTION to clip for a full overlay hinge
<b>12385</b>	973A0600	BLUMOTION to clip for a half overlay hinge
<b>12386</b>	973A0700	BLUMOTION to clip for an inset hinge



# CLIP top 95°, for thick door

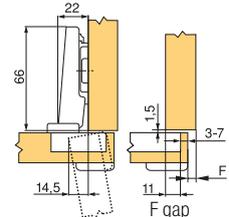
## CLIP top 95°, for thick door

### Full overlay

code	Blum code	motion	cup mounting
<b>118030</b>	71B9550	with BLUMOTION	screw
<b>12060</b>	71T9550	with spring	screw
<b>177383</b>	70T9550.T	unsprung	screw
<b>347281</b>	70T9590BTL	unsprung	INSERTA

- drilling depth for a cup 13 mm
- cup diameter 35 mm, arm length 66 mm
- 95° opening angle screw
- door thickness 16–26 mm (up to 32 mm without soft closing)
- offset of the cup 3 to 7 mm from the edge

### Full overlay doors

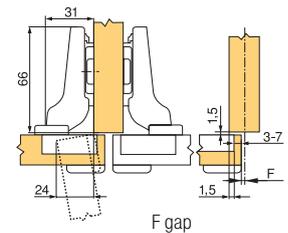


### Half overlay

code	Blum code	motion	cup mounting
<b>118031</b>	71B9650	with BLUMOTION	screw
<b>12063</b>	71T9650	with spring	screw
<b>177384</b>	70T9650.TL	unsprung	screw

📄 recommended plates: 203387, 211476, 12323, 12326, 12306, 12318, 12340, 12302, p. 1.27

### Half overlay doors

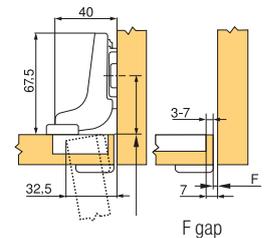


### Inset

code	Blum code	motion	cup mounting
<b>118032</b>	71B9750	with BLUMOTION	screw
<b>13066</b>	71T9750	with spring	screw
<b>177385</b>	70T9750.TL	unsprung	screw

ⓘ offset the plate screwing position by the thickness of the door + 1.5 mm

### Inset doors



### ACCESSORIES

code	Blum code	description
<b>12042</b>	70T3504	cover cap of the cup for hinges with soft closing
<b>12058</b>	70T1504	cover cap of the cup for hinges without soft closing
<b>12094</b>	70.1553	arm cover cap for full overlay hinge
<b>12011</b>	70.1663	arm cover cap for half overlay and inset hinges
<b>268987</b>	70T3507.21	distance plate for the hinges cup



## 155° with BLUMOTION

- hinge for inner pull-outs with zero protrusion – **FULL OVERLAY HINGE ONLY**
- opening angle 155° (when opening to 90°, the inner edge of the door is already pushed 2.5 mm out of the inner space of the body, which is suitable for inner drawers), it applies only to the full overlay hinges with drilling depth for a cup 11.7 mm and cup diameter 35 mm
- inset door option – 12221 + plate raised by 9 mm (e.g. 12332)
- more in the Blum catalogue



### Full overlay

code	Blum code	motion	cup mounting
<b>347923</b>	71B7550	with BLUMOTION	screw
<b>347925</b>	71B7590	with BLUMOTION	INSERTA
<b>347924</b>	71B7580	with BLUMOTION	pressing-in
<b>347929</b>	71T7550	with spring	screw
<b>347931</b>	71T7590	with spring	INSERTA
<b>347930</b>	71T7580	with spring	pressing-in
<b>347953</b>	70T7550.TL	unsprung	screw
<b>347955</b>	70T7590.TL	unsprung	INSERTA

### Half overlay

code	Blum code	motion	cup mounting
<b>347926</b>	71B7650	with BLUMOTION	screw
<b>347928</b>	71B7690	with BLUMOTION	INSERTA
<b>347932</b>	71T7650	with spring	screw
<b>347938</b>	70T7650.TL	unsprung	screw
<b>347940</b>	70T7690.TL	unsprung	INSERTA

## 125° thick door

### Full overlay

code	Blum code	motion	cup mounting
<b>347947</b>	71B7550D	with BLUMOTION	screw
<b>347948</b>	71B7580D	with BLUMOTION	pressing-in

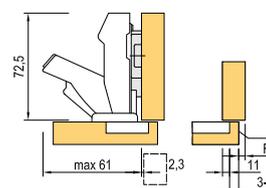
### ACCESSORIES

code	Blum code	description
<b>347956</b>	70T7553	110° opening angle stop
<b>347957</b>	70T553.09	92° opening angle stop
<b>347958</b>	70.4503.BP	arm cover cap, with logo
<b>347984</b>	70.4503	arm cover cap
<b>347961</b>	70T7504	cup cover cap for 155°

☑ recommended plates: 203387, 211476, 12323, 12326, 12306, 12318, 12340, 12302, p. 1.35

### Full overlay doors

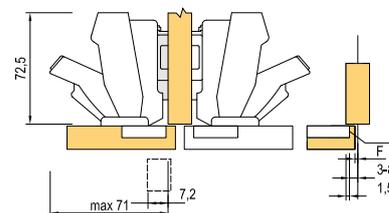
(e.g. 347923 + 12306)



F - gap

### Half overlay doors

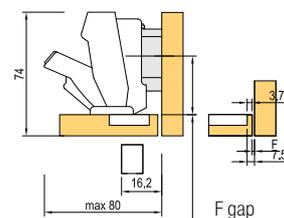
(e.g. 347926 + 12306)



F gap

### Inset doors

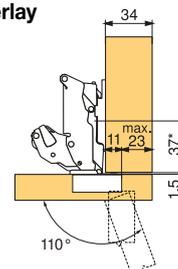
(e.g. 347926 + 12332)



F gap

offset the plate screwing position by the thickness of the door + 1.5 mm

### Max. front overlay





# CLIP top 170°, corner application

## CLIP top 170°

### Full overlay

code	Blum code	motion	cup mounting
<b>13041</b>	71T6550	with spring	screw
<b>179411</b>	71T658E	with spring	EXPANDO
<b>12044</b>	71T6540B	with spring	INSERTA
<b>177379</b>	70T6550.TL	unsprung	screw
<b>177378</b>	70T6540BTL	unsprung	INSERTA

### Half overlay

code	Blum code	motion	cup mounting
<b>12045</b>	71T6650	with spring	screw

- for inset door application - 12045 + 9 mm spaced mounting plate (e.g. 12332)

### ACCESSORIES

code	Blum code	description
<b>12273</b>	80.6507	arm cover cap for 170°
<b>12095</b>	70.6103	opening restrictor for 170°
<b>12384</b>	973A6000	clipping damper for 170°

- ❗ Offset the plate screwing position by the thickness of the door + 1.5 mm.

### Hinge for folding doors

code	Blum code	motion	cup mounting
<b>12112</b>	79T8500	with spring	screw
<b>12113</b>	79T853E	with spring	EXPANDO

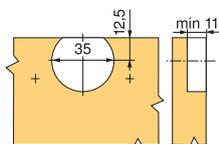
- for door thicknesses from 15–23 mm, factory setting for 19 mm door thickness
- in combination with hinges 155° or 170°
- 60° opening angle

### ACCESSORIES

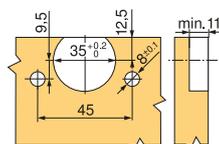
code	Blum code	description
<b>12093</b>	70.1503	arm cover cap, without logo
<b>12393</b>	970.1002	dampers for drilling-in (for handles)

- ❑ recommended plates: 203387, 211476, 12323, 12326, 12306, 12318, 12340, 12302, p. 127

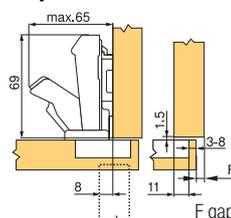
#### Mounting



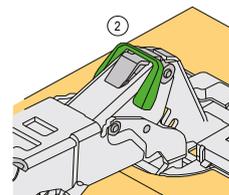
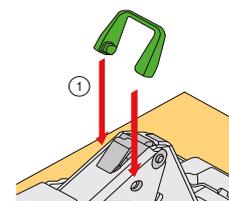
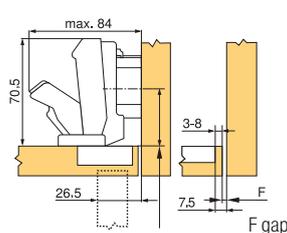
#### Mounting/Exp.



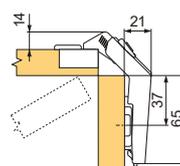
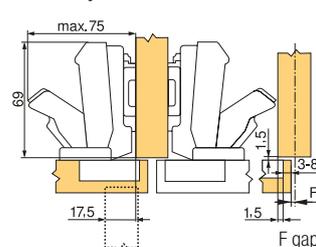
#### Full overlay doors



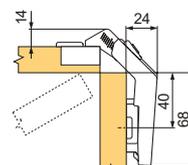
#### Inset doors



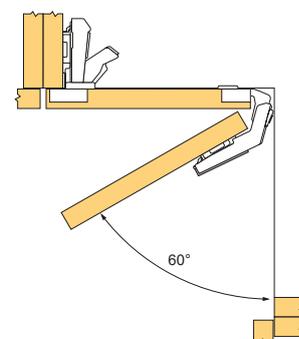
#### Half overlay doors



- ❗ Factory setting of hinge overlay for 19 mm door thickness.



- ❗ Door overlay for door thickness 19 mm when using standard mounting plates, raised by 3 mm.



- ❗ The hinge cup of the folding hinge should be fixed to the same front as the cup of the 170° and 155° hinge.


**CLIP top for aluminium frames, 95°**
**Full overlay**

code	Blum code	motion	cup mounting
<b>118033</b>	71B950A	with BLUMOTION	screw

**Half overlay**

code	Blum code	motion	cup mounting
<b>118120</b>	71B960A	with BLUMOTION	screw

**Inset**

code	Blum code	motion	cup mounting
<b>118121</b>	71B970A	with BLUMOTION	screw


**CLIP top for aluminium frames, 95°**
**Full overlay**

code	Blum code	motion	cup mounting
<b>12106</b>	71T950A	with spring	screw
<b>12103</b>	71T950AB	with spring, for BLUMOTION <sup>1)</sup>	screw
<b>12109</b>	70T950A.TL	unsprung	screw

<sup>1)</sup> 12391 BLUMOTION to clip

**Half overlay**

code	Blum code	motion	cup mounting
<b>12107</b>	71T960A	with spring	screw
<b>12104</b>	71T960AB	with spring, for BLUMOTION <sup>1)</sup>	screw

<sup>1)</sup> 12385 BLUMOTION to clip

**Inset**

code	Blum code	motion	cup mounting
<b>12108</b>	71T970A	with spring	screw

- offset the plate screwing position by the thickness of the door + 2.5 mm


**CLIP top for aluminium frames, 120°**
**Full overlay**

code	Blum code	motion	cup mounting
<b>13764</b>	72T550A.TL	unsprung	screw

recommended plates: 203387, 211476, 12323, 12326, 12306, 12318, 12340, 12302, p. 1.27

**ACCESSORIES**

code	Blum code	description
<b>12094</b>	70.1553	arm cover cap for full overlay hinge
<b>12011</b>	70.1663	hinge arm cover cap for half overlay and inset hinge



# CLIP top for glass doors, mini hinges

## CLIP top for drilled glass doors

### Full overlay

code	Blum code	motion	cup mounting
<b>12080</b>	75T4100	with spring	screw

### Half overlay

<b>12081</b>	75T4200	with spring	screw
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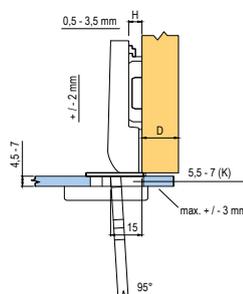
### Inset

<b>12082</b>	75T4300	with spring	screw
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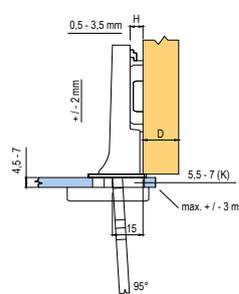


- screws provided with the hinge
- cup drilling diameter 26 mm
- arm length 66 mm, inset 68 mm
- cover caps diameter 31 mm, length of oval one 41 mm
- 94° opening angle
- for drilled glass doors of 4.5–7 mm thickness
- option to offset the cup 6 to 7 mm from the edge
- for more information, see the Blum catalogue, available after registration at [www.katalog-blum.cz](http://www.katalog-blum.cz), or in the brochure available for download at [www.blum.com](http://www.blum.com)

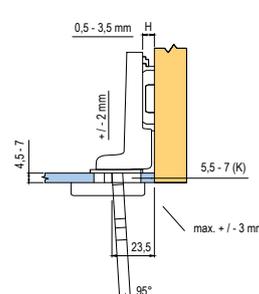
Full overlay doors



Half overlay doors



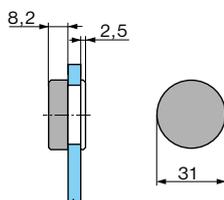
Inset doors



### Counterpart and hinge cups for glass doors

code	Blum code	description
<b>12085</b>	84.4120	shape D, chrome
<b>12087</b>	84.4120	shape D, matt nickel
<b>12090</b>	84.4140	shape O, chrome
<b>12092</b>	84.4140	shape O, matt nickel

☑ recommended plates: 203387, 211476, 12323, 12326, 12306, 12318, 12340, 12302, p. 1.27



### ACCESSORIES

code	Blum code	description
<b>12094</b>	70.1553	arm cover cap

## Mini hinges

### Full overlay

code	Blum code	description
<b>12076</b>	71T0550	screw, 94°

### Half overlay

<b>12075</b>	71T0650	screw, 94°
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### Inset

<b>12074</b>	71T0750	screw, 94°
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### Angled hinge with mini cup

<b>12166</b>	79A0558.T	+ 45°/ 94° with spring
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### ACCESSORIES

code	Blum code	description
<b>12094</b>	70.1553	arm cover cap

☑ Recommended plates: 203387, 211476, 12323, 12306, 12318, 12340, 12302, p. 1.127



## CRISTALLO with BLUMOTION

code	Blum code	motion
<b>347963</b>	71B4500C	with BLUMOTION
<b>347964</b>	71T4500C	with spring
<b>347965</b>	70T4500CTL	unsprung

### Hinge cup

code	Blum code	cup mounting
<b>347966</b>	70T4568C	for gluing on glass
<b>347967</b>	70T4568C	for gluing on mirror

### Hinge plate

<b>347968</b>	175M4C20N	for gluing on glass body
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### ACCESSORIES FOR THE NEW VERSION

code	Blum code	description
<b>347981</b>	70T4503.09	CRISTALLO 92° opening angle stop
<b>347982</b>	70T4503	CRISTALLO 85° opening angle stop
<b>347983</b>	70.4503.BP	arm cover cap, with CRISTALLO logo
<b>347984</b>	70.4503	CRISTALLO arm cover cap
<b>347986</b>	70T4504	CRISTALLO cover cap of the cup

#### Hinge for glass and mirror doors

- fixing the hinge cup to glass (mirror) by gluing without drilling into glass
- the different overlay can be achieved through relevant cup adhesion positions
- opening angle 125°, new version 110°
- the correct gluing procedure will be recommended by the glass or mirror supplier
- for more information, see the Blum catalogue, available after registration at [www.katalog-blum.cz](http://www.katalog-blum.cz), or in the brochure available for download at [www.blum.com](http://www.blum.com)



### Cabinets with overlapping fronts for bathrooms

code	Blum code	motion	mounting
<b>12049</b>	71B3750	with BLUMOTION	screw
<b>347968</b>	175M4C20N		for glue-on mirror

☑ recommended plates: 203387, 211476, 12323, 12326, 12306, 12318, 12340, 12302, p. 1.27





## Hinges for thin materials

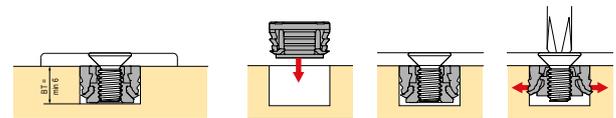
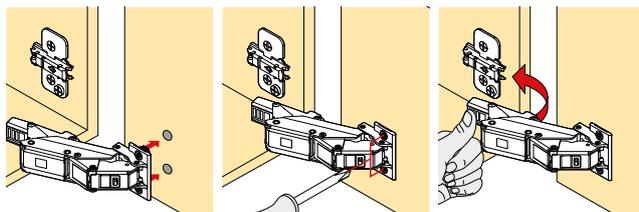
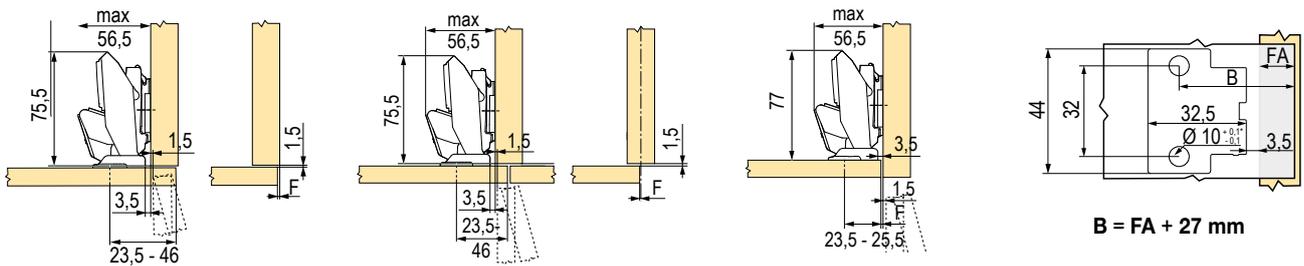
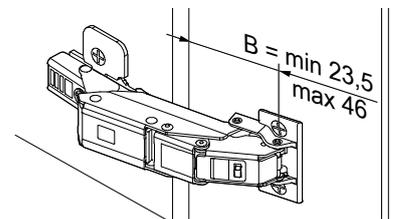
- hinges with special split dowel
- perfect stability at a hinge drilling depth of only 6 mm
- preservation of smoothness of motion and precision of closing thanks to BLUMOTION



### Hinges for thin materials

#### 110° for thin doors

code	Blum code	motion	cup mounting
<b>347988</b>	71B453T	with BLUMOTION	EXPANDO T
<b>347989</b>	71T453T	with spring	EXPANDO T
<b>347990</b>	70T453T	unsprung	EXPANDO T



#### ACCESSORIES

code	Blum code	description
<b>347984</b>	70.4503	arm cover cap
<b>347986</b>	70T4504	cover cap of the cup
<b>347982</b>	70T4503	85° opening angle stop
<b>347981</b>	70T4503.09	92° opening angle stop

- hinge for door thickness 8 - 14 mm
- EXPANDO T mounting system for the most diverse board materials
- CLIP top BLUMOTION with integrated BLUMOTION (with deactivation)
- CLIP top with a closing mechanism (spring) or without it (TIP-ON)
- zero protrusion (for inner or shelf pull-outs)
- installation without tools on a mounting plate
- adjustment of front in 3 directions

**Different construction situations are achieved according to the respective screwing position.**

recommended plates: 203387, 211476, 12323, 12326, 12306, 12318, 12340, 12302, p. 1.27



**Fields of use of EXPANDO T**

In the furniture industry, EXPANDO T is a suitable system for installation of Blum fittings on thin board materials.

With sufficient stability and hardness/strength, we use board materials with thickness from 8 mm.

**Raising of mounting plates in the cabinet body at the walls**

MD	front overlay FA (mm)																	
	- 3.5	- 2.5	- 2	- 1.5	- 1	2.5	4	5.5	7	8.5	10	11.5	13	14.5	16	17.5	19	19
0	23.5	24.5	25	25.5	26	29.5	31	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46	46
3	26.5	27.5	28	28.5	29	32.5	34	35.5	37	38.5	40	41.5	43	44.5	46			
6	29.5	30.5	31	31.5	32	35.5	37	38.5	40	41.5	43	44.5	46					
9	32.5	33.5	34	34.5	35	38.5	40	41.5	43	44.5	46							

MD raising of mounting plates (mm)

minimum gap is always 0 mm

**Field of use and recommendations for processing**

materials, tested by Blum	minimum tightening torque (Nm)
particle board (transverse tensile strength > 0.45 N/mm <sup>2</sup> )	1.5
fibreboard MDF boards (transverse tensile strength > 0.6 N/mm <sup>2</sup> )	1.5
fibreboard HDF boards	2
HPL boards	2
construction materials from minerals	2
natural stone – nero assoluto granite	3
artificial stone – quartz composite	3
ceramic boards	3



Raising of mounting plates in the cabinet body at the wall							
Cabinet body side thickness (mm)	Door thickness (mm)						
	8	9	10	11	12	13	14
15	Orange	Orange	Orange	Grey	Grey	Grey	Black
16	Orange	Orange	Orange	Orange	Grey	Grey	Grey
17	Orange	Orange	Orange	Orange	Orange	Grey	Grey
18	Orange	Orange	Orange	Orange	Orange	Orange	Grey
19	Orange	Orange	Orange	Orange	Orange	Orange	Orange
20	Orange	Orange	Orange	Orange	Orange	Orange	Orange

Orange	Possible MD 0 mm
Grey	MD 3 mm required
Black	MD 6 mm required



## Unsprung hinge, for TIP-ON

### Full overlay

code	Blum code	description	cup mounting
<b>226668</b>	70T3550.TL	110°	screw
<b>226669</b>	70T358E.TL	110°	EXPANDO
<b>177369</b>	70T3590.TL	110°	INSERTA
<b>177364</b>	70M2550.TL	100°	screw
<b>171076</b>	70M2580.TL	100°	pressing-in
<b>12023</b>	70T5550.T	120°	screw
<b>12028</b>	70T558E.T	120°	EXPANDO
<b>177376</b>	70T5590BTL	120°	INSERTA
<b>177375</b>	70T5580.TL	120°	pressing-in
<b>177379</b>	70T6550.TL	170°	screw
<b>177378</b>	70T6540BTL	170°	INSERTA
<b>177383</b>	70T9550.TL	thick door, 95°	screw
<b>347281</b>	70T9590BTL	thick door, 95°	INSERTA
<b>347953</b>	70T7550.TL	zero protrusion, 155°	screw
<b>347955</b>	70T7590.TL	zero protrusion, 155°	INSERTA
<b>318173</b>	70T9550.TL	95°, Onyx	screw

### Half overlay

<b>226670</b>	70T3650.TL	110°	screw
<b>177372</b>	70T3690.TL	110°	INSERTA
<b>224239</b>	70M2650.TL	100°	screw
<b>177365</b>	70M2680.TL	100°	pressing-in
<b>177377</b>	70T5690BTL	120°	INSERTA
<b>177384</b>	70T9650.TL	thick door, 95°	screw
<b>347938</b>	70T7650.TL	155°	screw
<b>347940</b>	70T7690.TL	155°	INSERTA
<b>347940</b>	70T7690.TL	angled type I, 45/95°	screw
<b>335544</b>	70T9650.TL	95°, ONYX	screw

### Inset

<b>226671</b>	70T3750.TL	110°	screw
<b>177374</b>	70T3790.TL	110°	INSERTA
<b>224240</b>	70M2750.TL	100°	screw
<b>177366</b>	70M2780.TL	100°	pressing-in
<b>177385</b>	70T9750.TL	thick door, 95°	screw
<b>166071</b>	78T9550.TL	blind corner <sup>1)</sup> , 95°	screw
<b>347118</b>	70T9750.TL	95°, ONYX	screw

<sup>1)</sup>for 3 mm spaced mounting plate – see p. 1.27



## Aluminium frames

### Full overlay

code	Blum code	description	cup mounting
<b>12109</b>	70T950A.TL	95°	screw
<b>13764</b>	72T550A.TL	120°	screw
<b>347990</b>	70T453T	110°	EXPANDO T

### Glass

code	Blum code	description	cup mounting
<b>347965</b>	70T45000CTL	110°	gluing

for mounting plates, see p. 1.27



## TIP-ON Push to open pins for hinges

code	Blum code	description	colour (material)
<b>250826</b>	956.1004	50 mm, magnet	white
<b>250827</b>	956.1004	50 mm, magnet	grey
<b>250828</b>	956.1004	50 mm, magnet	black
<b>250831</b>	956A1004	76 mm, magnet	white
<b>250833</b>	956A1004	76 mm, magnet	grey
<b>250834</b>	956A1004	76 mm, magnet	black
<b>308497</b>	956A1006	76 mm, buffer	white
<b>250836</b>	956A1006	76 mm, buffer	grey
<b>288368</b>	956A1006	76 mm, buffer	black



### TIP-ON adapters for Push to open pins

<b>250838</b>	956.1201	50 mm, inline	white
<b>250839</b>	956.1201	50 mm, inline	grey
<b>250840</b>	956.1201	50 mm, inline	black
<b>347704</b>	956.1201	50 mm, inline	nickel
<b>250841</b>	956A1201	76 mm, inline	white
<b>250842</b>	956A1201	76 mm, inline	grey
<b>250843</b>	956A1201	76 mm, inline	black
<b>250844</b>	956A1501	76 mm, cruciform	grey



<b>341755</b>	955.1008D	TIP-ON plate for pressing-in	nickel
<b>225140</b>	955.1008S	TIP-ON plate for screwing-on	nickel
<b>348000</b>	955.1008	TIP-ON plate for gluing-on	steel

- TIP-ON Push to open pins for handleless fronts open after a slight push
- they are used in combination with Blum spring-free hinges
- the Push to open pins are also designed for TIP-ON versions of AVENTOS
- colour matching adapters plates make it easy and fast to mount on the side of the cabinet body
- two Push to open pins lengths to which suitable adapters are designed
- it can be aligned with the rest of the fronts by rotating the ejector thanks to adjustment feature (+ 4 / - 1 mm), which is integrated into the Push to open pins



341755



225140



348000

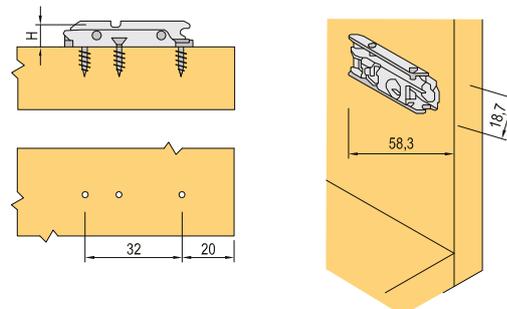


# CLIP top and CLIP mounting plates

## CLIP top mounting plates

### Basic mounting plates

code	Blum code	motion	cup mounting
<b>12306</b>	173L6100	cruciform	screw
<b>12318</b>	173L8100	cruciform	euro screw
<b>12302</b>	174E6100.01	cruciform	EXPANDO
<b>203387</b>	175H3100	horizontal	screw
<b>211476</b>	177H3100E	horizontal	EXPANDO
<b>12340</b>	173H7100	cruciform with cam	screw
<b>12325</b>	175H7100	cruciform with cam	screw
<b>12312</b>	174H7100E	cruciform with cam	EXPANDO
<b>12316</b>	174H7100I	cruciform with cam	INSERTA

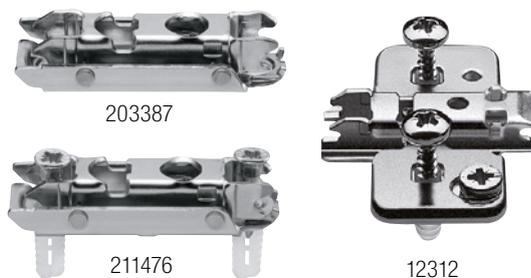


### Plates raised by 3 mm

<b>12304</b>	173L6130	cruciform	screw
<b>12305</b>	173L8130	cruciform	euro screw
<b>12303</b>	174E6130.01	cruciform	EXPANDO
<b>226677</b>	175H3130	horizontal	screw
<b>12341</b>	173H7130	cruciform with cam	screw
<b>12307</b>	175H7130	cruciform with cam	screw
<b>288360</b>	177H3130E	horizontal cam mounting plate	EXPANDO

### Raised plates, cruciform with cam

<b>12319</b>	175H9160	by 6 mm	euro screw
<b>12332</b>	175H7190	o 9 mm	screw
<b>12335</b>	175H9190	o 9 mm	euro screw
<b>12311</b>	175H7190.22	o 18 mm	screw
<b>12336</b>	175H9190.22	o 18 mm	euro screw



## ACCESSORIES

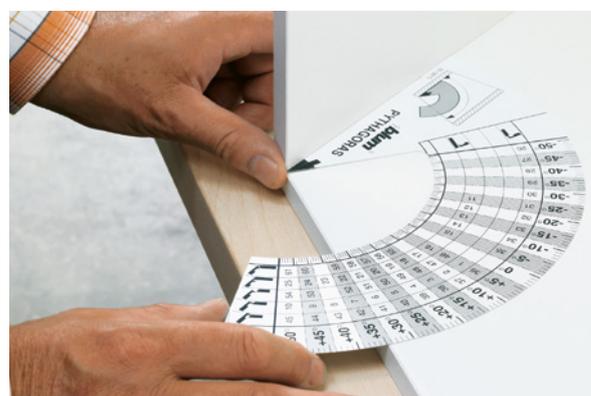
code	Blum code	description
<b>12170</b>	171A5010	+ 5°, height: 0.8 mm
<b>12171</b>	171A5040	+ 5°, height: 3 mm
<b>12172</b>	171A5070	+ 5°, height: 6 mm
<b>12173</b>	171A5500	- 5°, height: 6 mm
<b>347999</b>	70T4532T	dowel, EXPANDO T

- EXPANDO T dowel is without a screw
  - 92598T - M4 × 8
  - 362259 - M4 × 12




**Angled hinges**

code	Blum code	angled hinge / opening angle	motion	cup mounting
<b>118164</b>	79B9458	+ 45° / 95°	with BLUMOTION	screw
<b>118163</b>	79B3558	+ 45° / 110°	with BLUMOTION	screw
<b>118154</b>	79B9658	+ 45° / 95°	with BLUMOTION	screw
<b>12130</b>	79A9658.T	+ 45° / 95°	with spring	screw
<b>13071</b>	79A9698BT	+ 45° / 95°	with spring	INSERTA
<b>12121</b>	79T5550	+ 45° / 110°	with spring	screw
<b>12078</b>	79T558E	+ 45° / 110°	with spring	EXPANDO
<b>12128</b>	79T5590B	+ 45° / 110°	with spring	INSERTA
<b>12124</b>	79A9458.T	+ 45° / 95°	with spring	screw
<b>12125</b>	79A9498BT	+ 45° / 95°	with spring	INSERTA
<b>12161</b>	79A4108.T	+ 45° / 94°	with spring	glass
<b>12166</b>	79A0558.T	+ 45° / 94°	with spring	screw
<b>177464</b>	78A9658.T	+ 45° / 95°	unsprung	screw
<b>119482</b>	79B9456	+ 30° / 95°	with BLUMOTION	screw
<b>119481</b>	79B9556	+ 30° / 95°	with BLUMOTION	screw
<b>12123</b>	79A9456.T	+ 30° / 95°	with spring	screw
<b>12127</b>	79A9556.T1	+ 20° / 95°	with spring	screw
<b>119483</b>	79B9555	+ 20° / 110°	with BLUMOTION	screw
<b>12126</b>	79A9555.T	+ 20° / 95°	with spring	screw
<b>12160</b>	79A4105.T	+ 20° / 94°	with spring	glass
<b>12072</b>	79A0555.T	+ 20° / 94°	with spring	screw
<b>119484</b>	79B9454	+ 15° / 95°	with BLUMOTION	screw
<b>12122</b>	79A9454.T	+ 15° / 95°	with spring	screw
<b>119485</b>	79B3453	- 15° / 110°	with BLUMOTION	screw
<b>12142</b>	79A5453.T	- 15° / 110°	with spring	screw
<b>119486</b>	79B3451	- 30° / 110°	with BLUMOTION	screw
<b>12141</b>	79A5451	- 30° / 110°	with spring	screw
<b>119487</b>	79B3450	- 45° / 110°	with BLUMOTION	screw
<b>12140</b>	79A5450.T	- 45° / 110°	with spring	screw





# table of angle options

TABLE OF ANGLE OPTIONS

-50	-45	-40	-35	-30	-25	-20	-15	-10	-5															
<p>CLIP TOP CRISTALLO</p>	<p>CLIP TOP MINI</p>	<p>CLIP TOP GLASS DOOR</p>	<p><b>CLIP TOP BLUMOTION 970A1002 – FOR DRILLING OF CRISTALLO WHEN USING MINI HINGES AND FOR GLASS DOORS</b></p> <p><b>Drilling distance when using angled hinges with mini cup</b></p> <p>Angled hinge mounting N° XX/XX Drilling distance (BA) in mm</p> <p>BLUMOTION 970A is for location on the hinge side and guarantees perfect motion even for angled hinges with mini cup. The hole for BLUMOTION 970A needs to be drilled into the cabinet body top.</p> <p>The correct position is set using the drilling distance (BA). If the BLUMOTION effect is insufficient, we recommend installing an additional BLUMOTION 970A in the bottom.</p>							<p>N° 106/37 B1 12101 B2 12100 C 12340 D 12173</p>	<p>N° 107/37 B1 12101 B2 12100 C 12340 D 12173</p>	<p>N° 92/48 B 12075 C 12341 D 12173</p>	<p>N° 84 B 12075 C 12340 D 12173</p>	<p>N° 77/37 B 12076 C 12340 D 12173</p>	<p>N° 69/48 B 12081 C 12340 D 12173</p>	<p>N° 62/37 B 12080 C 12340 D 12173</p>								
<p>CLIP top CLIP top</p>	<p>CLIP top CLIP top</p>	<p>CLIP top CLIP top</p>	<p>BLUMOTION</p> <p>A... CLIP top BLUMOTION B... CLIP top</p>							<p>N° 11 A 119486 B 12141 C 12332 D 12172</p>	<p>N° 12 A 119485 B 12142 C 12319 D 12173</p>	<p>N° 13 A 119485 B 12142 C 12311</p>	<p>N° 14 A 119485 B 12142 C 12332 D 12172</p>	<p>N° 15 A 118031 B 12063 C 12340 D 12173</p>	<p>N° 26 A 119487 B 12140 C 12340 D 12173</p>	<p>N° 27 A 119487 B 12140 C 12341</p>	<p>N° 28 A 119487 B 12140 C 12340 D 12171</p>	<p>N° 29 A 119486 B 12141 C 12340 D 12173</p>	<p>N° 30 A 119486 B 12141 C 12341</p>	<p>N° 31 A 119486 B 12141 C 12340 D 12171</p>	<p>N° 32 A 119485 B 12142 C 12340 D 12173</p>	<p>N° 33 A 119485 B 12142 C 12340</p>	<p>N° 34 A 119485 B 12142 C 12340 D 12170</p>	<p>N° 35 A 118030 B 12060 C 12340 D 12173</p>
<p><b>Angled hinges system</b></p> <p>A B B1 B2 C D</p>																								

## table of angle options



	5	10	15	20	25	30	35	40	45	50
	<b>N° 36</b> A 118030 B 12060 C 12340 D 12170	<b>N° 37</b> A 119484 B 12122 C 12340 D 12173	<b>N° 38</b> A 119484 B 12122 C 12319	<b>N° 39</b> A 119484 B 12122 C 12340 D 12172	<b>N° 40</b> A 119482 B 12123 C 12340 D 12173	<b>N° 41</b> A 119482 B 12127 C 12319	<b>N° 42</b> A 119482 B 12123 C 12340 D 12172	<b>N° 43</b> A 118164 B 12124 C 12340 D 12173	<b>N° 44</b> A 118164 B 12124 C 12319	<b>N° 45</b> A 118164 B 12124 C 12340 D 12172
	<b>N° 1</b> A 118030 B 12060 C 12340 D 12170	<b>N° 2</b> A 119484 B 12122 C 12340 D 12173	<b>N° 3</b> A 119484 B 12122 C 12332	<b>N° 4</b> A 119483 B 12126 C 12340	<b>N° 5</b> A 119483 B 12126 C 12340 D 12170	<b>N° 6</b> A 119481 B 12127 C 12340	<b>N° 7</b> A 119481 B 12127 C 12340 D 12170	<b>N° 8</b> A 118164 B 12124 C 12319 D 12173	<b>N° 9</b> A 118163 B 12121 C 12340	<b>N° 10</b> A 118163 B 12121 C 12340 D 12170
	<b>N° 46</b> A 118031 B 12063 C 12340 D 12172	<b>N° 47</b> A 119484 B 12122 C 12311 D 12173	<b>N° 48</b> A 119483 B 12126 C 12341 D 12173	<b>N° 49</b> A 119483 B 12126 C 12332	<b>N° 50</b> A 119481 B 12127 C 12340 D 12173	<b>N° 51</b> A 119481 B 12127 C 12332	<b>N° 52</b> A 119481 B 12127 C 12340 D 12172	<b>N° 108</b> A 118164 B 12124 C 12332 D 12170	<b>N° 53</b> A 118164 B 12130 C 12340	<b>N° 54</b> A 118164 B 12130 C 12340 D 12170
	<b>N° 16</b> A 118032 B 12066 C 12340 D 12170	<b>N° 17</b> A 119484 B 12122 C 12311 D 12173	<b>N° 18</b> A 119483 B 12126 C 12332 D 12173	<b>N° 19</b> A 119483 B 12126 C 12311	<b>N° 20</b> A 119481 B 12127 C 12332 D 12173	<b>N° 21</b> A 119481 B 12127 C 12311	<b>N° 22</b> A 119481 B 12127 C 12311 D 12170	<b>N° 23</b> A 118164 B 12124 C 12332 D 12173	<b>N° 24</b> A 118163 B 12121 C 12311	<b>N° 25</b> A 118164 B 12130 C 12332 D 12172
			<b>N° 55</b> A 119483 B 12126 C 12340 D 12173	<b>N° 56</b> A 119483 B 12126 C 12319	<b>N° 57</b> A 119481 B 12127 C 12340 D 12173	<b>N° 58</b> A 119481 B 12127 C 12341	<b>N° 59</b> A 119481 B 12127 C 12340 D 12171	<b>N° 109</b> A 118164 B 12130 C 12332 D 12171	<b>N° 60</b> A 118154 B 12130 C 12340	<b>N° 61</b> A 118154 B 12130 C 12340 D 12170
	<b>N° 63/33</b> B 12080 C 12340 D 12170		<b>N° 64/45</b> B 12160 C 12340 D 12173	<b>N° 65/37</b> B 12160 C 12340	<b>N° 66/37</b> B 12160 C 12340 D 12170				<b>N° 67/45</b> B 12161 C 12340	<b>N° 68/45</b> B 12161 C 12340 D 12170
	<b>N° 70/48</b> B 12082 C 12340 D 12170		<b>N° 71/54</b> B 12160 C 12332 D 12173	<b>N° 72/54</b> B 12160 C 12311	<b>N° 73/48</b> B 12160 C 12332 D 12172			<b>N° 74/48</b> B 12161 C 12341 D 12173	<b>N° 75/48</b> B 12161 C 12332	<b>N° 76/48</b> B 12161 C 12341 D 12172
	<b>N° 78/33</b> B 12076 C 12340 D 12170		<b>N° 79/45</b> B 12072 C 12340 D 12173	<b>N° 80/37</b> B 12072 C 12340	<b>N° 81/37</b> B 12072 C 12340 D 12170				<b>N° 82/45</b> B 12166 C 12340	<b>N° 83/48</b> B 12166 C 12340 D 12170
	<b>N° 85/48</b> B 12075 C 12340 D 12172		<b>N° 86/48</b> B 12072 C 12341 D 12173	<b>N° 87/48</b> B 12072 C 12332	<b>N° 88/45</b> B 12072 C 12341 D 12172			<b>N° 89/48</b> B 12166 C 12340 D 12173	<b>N° 90/48</b> B 12166 C 12341	<b>N° 91/48</b> B 12166 C 12341 D 12170
	<b>N° 93/48</b> B 12074 C 12340 D 12171		<b>N° 94/48</b> B 12072 C 12332 D 12173	<b>N° 95/48</b> B 12072 C 12311	<b>N° 96/48</b> B 12072 C 12311 D 12171			<b>N° 97/48</b> B 12166 C 12332 D 12173	<b>N° 98/48</b> B 12166 C 12311	<b>N° 99/48</b> B 12166 C 12311 D 12170
	<b>N° 100/33</b> B1 12101 B2 12100 C 12340 D 12170	<b>N° 101/33</b> B1 12101 B2 12100 C 12340 D (2X) 12170	<b>N° 102/33</b> B1 12101 B2 12100 C 12340 D (3X) 12170							
	<b>N° 103/33</b> B1 12101 B2 12100 C 12340 D 12170	<b>N° 104/33</b> B1 12101 B2 12100 C 12340 D (2X) 12170	<b>N° 105/33</b> B1 12101 B2 12100 C 12340 D (3X) 12170							

\*) When dealing with narrow top rails or larger front gaps, we recommend using the cruciform adapter plate as needed 970.XXXX.



# dampers for drilling-in, clipping

## Soft closing pistons

### BLUMOTION for drilling

code	Blum code	description	colour
<b>12398</b>	970A1002	for hinges	dark grey
<b>12393</b>	970.1002	for the handle	grey



12398

### Adapters

code	Blum code	description	colour
<b>12394</b>	970.1201	inline, screw	grey
<b>12395</b>	970.1501	cruciform, screw	grey
<b>12390</b>	970.15E1	cruciform, EXPANDO	grey
<b>12396</b>	970.2501	cruciform, double, screw	grey



12394



12395



12396

### BLUMOTION for clipping on

code	Blum code	description
<b>12384</b>	973A6000	for hinge with 170° opening angle <sup>1)</sup>
<b>12381</b>	973A7360	for hinges with 30° overlay angle <sup>2)</sup>
<b>12382</b>	973A7480	for hinges with 45° overlay angle, type I <sup>3)</sup>
<b>120397</b>	973A7680	for hinges with 45° overlay angle, type II <sup>4)</sup>



12384

<sup>1)</sup> damper for hinges 13041, 179411 and 12044

<sup>2)</sup> damper for hinge 12127

<sup>3)</sup> damper for hinges 12130 and 13071

<sup>4)</sup> damper for hinges 12121, 12078 and 12128

### BLUMOTION for clipping on

code	Blum code	description
<b>12391</b>	973A0500.01	for full overlay hinges <sup>1)</sup>
<b>12385</b>	973A0600	for half overlay hinges <sup>2)</sup>
<b>12386</b>	973A0700	for inset hinges <sup>3)</sup>



12391



12385



12386

<sup>1)</sup> damper for hinges 12002, 12050 and 12004

<sup>2)</sup> damper for hinges 12005, 12051 and 12006

<sup>3)</sup> damper for hinges 12008, 12007 and 12010

### BLUMOTION with adapter plates

code	Blum code	description	material
<b>12392</b>	971A0500	between the hinges	nickel



12392



## MODUL, mounting plates

### Full overlay

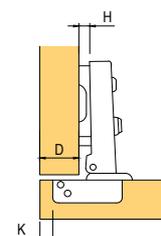
code	Blum code	description	cup mounting
<b>12180</b>	91M2550	with spring, 100°	screw
<b>12183</b>	91M258E.E0	with spring, 100° – including plate	EXPANDO
<b>12181</b>	91M2580	with spring, 100°	pressing-in
<b>12230</b>	91A6550	with spring, 170°	screw



### Full overlay hinge

Table of overlay protrusion for specified drilling distance from edge **K** and plate height **H**.

	K=3	K=4	K=5	K=6
<b>H=0</b>	14	15	16	17
<b>H=3</b>	11	12	13	14
<b>H=6</b>	8	9	10	11
<b>H=9</b>	5	6	7	8



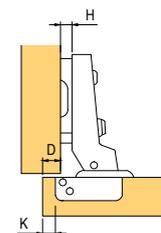
### Half overlay

<b>12185</b>	91M2650	with spring, 100°	screw
<b>12184</b>	91M268E	with spring, 100°	EXPANDO

### Half overlay hinge

Table of overlay protrusion for specified drilling distance from edge **K** and plate height **H**.

	K=3	K=4	K=5	K=6
<b>H=0</b>	4.5	5.5	6.5	7.5
<b>H=3</b>	1.5	2.5	3.5	4.5
<b>H=6</b>	- 1.5	-0.5	0.5	1.5
<b>H=9</b>	- 4.5	- 3.5	- 2.5	- 1.5



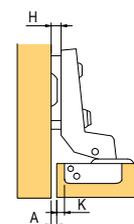
### Inset

<b>12188</b>	91M2750	with spring, 100°	screw
<b>12191</b>	91M278E.E0	with spring, 100° – including plate	EXPANDO

### Inset hinge

Table of calculation of required gap for specified drilling distance from edge **K** and plate height **H**.

	K=3	K=4	K=5	K=6
<b>H=0</b>	- 4	- 3	- 2	- 1



### ACCESSORIES

code	Blum code	description
<b>12271</b>	90M2503	arm cover cap
<b>12272</b>	90M2603	arm cover cap for half overlay and inset
<b>12273</b>	80.6507	arm cover cap for 170°

### Basic mounting plate

code	Blum code	description	cup mounting
<b>12364</b>	193L6100	cruciform	screw
<b>12362</b>	193L8100	cruciform	euro screw
<b>12352</b>	194E6100.ED	cruciform	EXPANDO

### Plate raised by 9 mm

<b>12360</b>	195H7190	cruciform with cam	screw
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12364

12352

12362

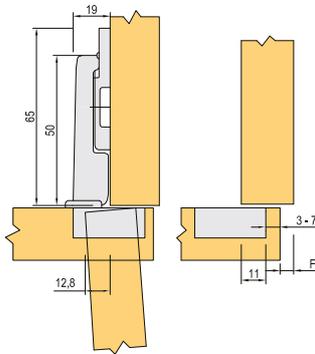


# MODUL – hinge for built-in refrigerators

## Hinge for built-in refrigerators 95°

code	Blum code	description	mounting
<b>228146</b>	91K9550	with spring, including plate	screw
<b>355903</b>	91K958E	with spring, including plate	EXPANDO

- access to 3D adjustment even when the refrigerator is assembled (installed)
- door mounting also possible for assembled (installed) refrigerator
- low height for installation (low profile) of the hinge, the refrigerator can be positioned inside the cabinet even when the front is attached
- rotary point for thick doors with small minimum gap



front thickness

	16	18	19	20	22	24	26	28	29	30	31	32
cup drilling offset 3	0.2	0.2	0.3	0.4	0.5	0.8	1.3	2.5	3.5	4.4	5.3	6.1
4	0.2	0.2	0.3	0.4	0.5	0.8	1.3	1.9	2.9	3.8	4.7	5.5
5	0.2	0.2	0.3	0.4	0.5	0.8	1.2	1.7	2.4	3.2	4.0	4.9
6	0.2	0.2	0.3	0.4	0.5	0.8	1.2	1.7	2.2	2.8	3.5	4.3
7	0.2	0.2	0.3	0.4	0.5	0.8	1.2	1.6	2.0	2.4	3.0	3.8

☑ for handleless opening of a refrigerator, freezer or dishwasher, see p. 2.61



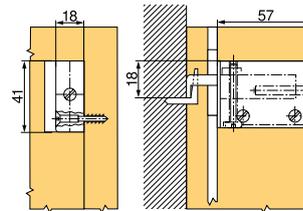
**Cabinet hanger**

code	Blum code	description
<b>13746</b>	48N0510.02S	right, white
<b>13747</b>	48N0510.03S	left, white
<b>13740</b>	48N0510.02S	right, brown
<b>13741</b>	48N0510.03S	left, brown

- cabinet hanger for mounting by screwing-on
- plastic housing with a hinge steel arm, galvanised
- colour: white, brown
- adjustable in three directions
- load capacity 130 kg per every pair in accordance with the DIN EN 15939 standard
- adjustment: down 7 mm, up 11 mm, backwards 3.5 mm, forwards 12.5 mm

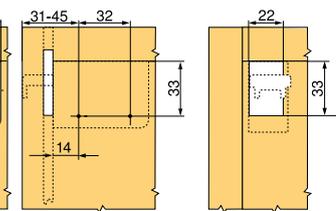
**Planning**

Required space



**Fixing positions**

In the body and in the cut-out in the back side

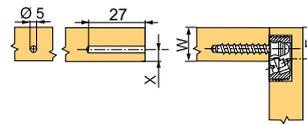


**Connecting fittings**

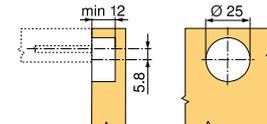
code	Blum code	description
<b>13716</b>	42.0700.01	white
<b>13715</b>	42.0700.01	brown

- connecting fittings for cabinet body with a connecting bolt
- plastic housing with a pre-mounted cam from zinc
- connecting bolt made of zinc, die casted

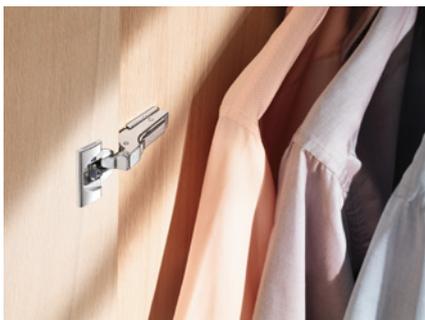
**Base**



**Cabinet body side**



c - w - x + 0 mm  
x max. - 9.5 mm





# mounting and drilling templates and tools

## Ecodrill

code	Blum code	description
<b>14120</b>	M31.1000	easy drilling of holes for hinge cups

- simple hand held tool to drill accurate hole patterns for Blum hinges
- driven by an electric hand drill
- variable drilling distance: 2–8 mm
- assembly on a marking line
- material: aluminium die cast



## Template for damper and TIP-ON

code	Blum code	description
<b>12378</b>	65.5010	accurate drilling into the cabinet body edge

- template for drilling the side fixing positions for BLUMOTION for doors handle side (970.1002) and hinge side (970A1002) as well as for TIP-ON (955 × 1004)
- assembly on a marking line
- material: plastic/steel



## Angled template

code	Blum code	description
<b>13815</b>	65.5810.01	tool for determining the angle

- template for cabinet body opening angle detection
- determination of the appropriate hinge solution
- material: plastic

### Hinge system assembly:

- position template on angled cabinet body
- note cabinet body opening angle and angled application
- a suitable hinge solution depends on the cabinet body opening angle or angled application



## Drilling template

code	Blum code	description
<b>65153</b>	65.1000.01	quick marking or drilling of holes for slides

- template for pre-drilling the fixing positions for cabinet profiles, lift mechanisms, mounting and adapter plates
- the template can be used with assembled and unassembled cabinet bodies
- height and depth adjustment using a scale
- suitable for overlay or inset constructions



## Separate template

code	Blum code	description
<b>65151</b>	65.1051	precise marking of the slide position

- template for pre-drilling the fixing positions for cabinet profiles, lift mechanisms, mounting and adapter plates
- the template can be used with assembled and unassembled cabinet bodies
- depth adjustment with a scale



## Universal template

code	Blum code	description
<b>13844</b>	ZML.0040.01	precise marking of the front fittings position

- for marking or pre-drilling the fixing positions of front fittings including railing, drawer back and base
- as well as for AVENTOS front fittings





## Boxfix

code	Blum code	description
<b>220482</b>	ZMM.0350	for TANDEMBOX mounting
<b>250998</b>	ZMM.0700.20	for LEGRABOX mounting



## Minifix

code	Blum code	description
<b>13870</b>	65.3300	marking of the slide position

- template for direct screwing-on and a right-angled mounting of cabinet profiles
- assembly on a marking line
- material: plastic



## Centring drill bit

code	Blum code	description
<b>12389</b>	M01.ZZ03.01	precise marking of the hole for the screw

- $\varnothing$  2.7 mm, drill bit length 70 mm
- for pre-drilling of holes  $\varnothing$  3.5 mm
- depth of the drilled hole up to 8 mm
- material: hardened steel



## Assembly machines

### MINIPRESS P

code	Blum code	description
<b>14081</b>	M53.1050	drilling and insertion machine, vertical drilling

- vertical drilling and pressing-in of fittings
- setting of drilling dimensions with the help of a lathe spindle
- pneumatic feed

**MINIPRESS P is a specialist for drilling holes for hinges. One setting is enough for the machine to perform routine work soberly and precisely. A pneumatic feed for drilling and insertion as well as a spindle for the drilling distance setting makes working with MINIPRESS P safe and precise.**



### MINIPRESS M

code	Blum code	description
<b>12019</b>	M52.1050	drilling and pressing machine, drilling of holes vertically

- including rotary drill head (5 spindles)
- with a backstop system, including a basic ruler (600 mm) and equipment
- different supply/connection voltages on demand
- rulers, drilling heads and other accessories are not included as part of the basic machine

**MINIPRESS M is a robust assistant for flexible use on site or in a workshop. MINIPRESS M does not require pressurised air or a strong power supply and instead can be operated using lighting current. The machine is particularly suited for processing of hinge systems. MINIPRESS M is equally efficient when it comes to inserting Blum fittings, the operation is both more simple and precise than using a standard drilling-machine.**





## Overview of hinge types

### Strong clip-type

basic	p.	1.39 – 1.40
angled variants	p.	1.40 – 1.41
plates and cover caps	p.	1.42



### Strong Plus clip-type

basic 165° variants	p.	1.44 – 1.45
angled variants	p.	1.46
plates and cover caps	p.	1.47
	p.	1.48



### Strong Slide-on

basic	p.	1.49
plates and cover caps	p.	1.50



### Strong for clip-type glass doors

basic	p.	1.51
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### Strong mini clip-on hinges

basic	p.	1.52
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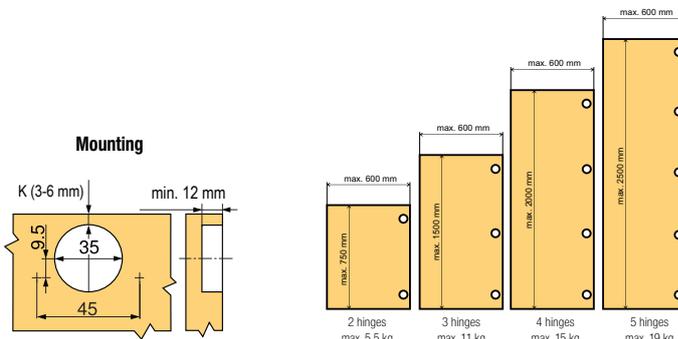


<p>Handleless K-push opening system Italiana Ferramenta</p>	<p>sets with adapters p. 1.53 sets for drilling-in p. 1.54</p>	
<p>Other mechanisms for handleless opening</p>	<p>Strong p. 1.55 other p. 1.54</p>	
<p>Concealed hinges with soft closing</p>	<p>concealed hinge p. 1.56</p>	
<p>Other hinges</p>	<p>Kimana for lower lift p. 1.57-1.58 hinges for glass doors p. 1.59 for extendable tables p. 1.60 KZ 40, 60, 80 and other hinges p. 1.61-1.62</p>	
<p>Other hinges</p>	<p>for built-in dishwashers p. 1.63</p>	



## Hinges with integrated soft closing system and cam

- high quality and excellent durability
- higher weight and massive hinge manufacturing
- quality proved by long-term sales (in our offer for more than 10 years)
- the Two-Way construction design extends the durability of the joints and the hinge itself



## Full overlay clip-type, screw fixation

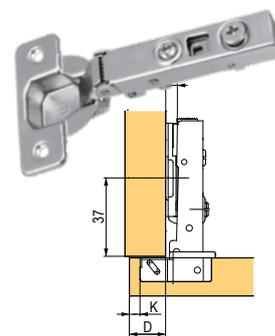
code	description
<b>92580T</b>	with soft closing system
<b>198818</b>	without soft closing system <sup>1)</sup>

<sup>1)</sup> suitable for use with the 92580T hinge (for small doors)

- 110° opening angle
- ☑ recommended HO plates; screw with cam 92594T, screw 92590T, with euro screws 92591T, for other plates see p. 1.42

D	K			
	3	4	5	6
0	14	15	16	17
H 2	12	13	14	15
4	10	11	12	13

possible adjustment  $D \pm 3$  mm



## Set – full overlay clip-type with soft closing

code	description
<b>127781</b>	with pre-mounted HO plate, with cover cap of cup and arm

- individual sets packed separately in a bag



## **N** Set – full overlay clip-type with soft closing (made of stainless steel)

code	description
<b>405459</b>	with HO plate with cam, cover caps of cup and arm, screw 4 pcs

- individual sets packed separately in a bag



## Half overlay clip-type, screw fixation

code	description
<b>92581T</b>	with integrated soft closing system
<b>198819</b>	without soft closing system <sup>1)</sup>

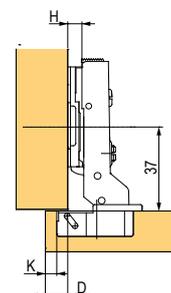
<sup>1)</sup> suitable for use with the 92581T hinge (for small doors)

- 110° opening angle
- ☑ recommended HO plates; screw with cam 92594T, screw 92590T, with euro screws 92591T, for other plates see p. 1.42



D	K			
	3	4	5	6
0	4	5	6	7
H 2	2	3	4	5
4	0	1	2	3

possible adjustment  $D \pm 3$  mm



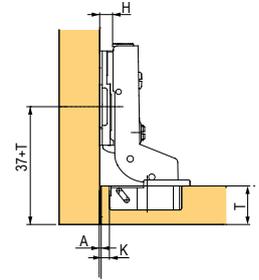


## Inset clip-type, screw fixation

code	description
<b>92582T</b>	with integrated soft closing system
<b>198820</b>	without soft closing system <sup>1)</sup>

<sup>1)</sup> suitable for use with the 92582T hinge (for small doors)

- 110° opening angle
- ☑ recommended H2 plates: screw 92592T, with euro screws 92593T, for other plates see p. 1.42



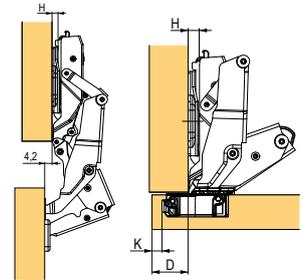
A	K			
	3	4	5	6
0	4	3	2	1
H 2	6	5	4	3
4	8	7	6	5

possible adjustment A ± 3 mm

## Full overlay 155° clip-type for screw fixing, with zero protrusion

code	description
<b>354224</b>	with integrated soft closing

- the doors do not interfere with the interior of the cabinet body at 90° opening angle (they do not interfere with the output path of the inner drawers)
- ☑ recommended H0 plates: screw with cam 92594T, screw 92590T, with euro screws 92591T, for other plates see p. 1.42



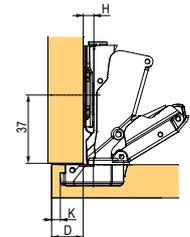
D	K			
	3	4	5	6
0	12	13	14	15
H 2	10	11	12	13
4	8	9	10	11

possible adjustment D ± 5 mm

## Full overlay 165° clip-type, screw fixation

code	description
<b>205543</b>	with integrated soft closing

- ☑ recommended H0 plates: screw with cam 92594T, screw 92590T, with euro screws 92591T, for other plates see p. 1.42



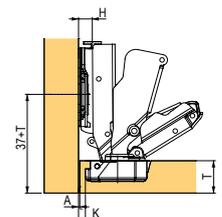
D	K			
	3	4	5	6
0	14	15	16	17
H 2	12	13	14	15
4	10	11	12	13

possible adjustment D ± 3 mm

## Inset 165° clip-type, screw fixation

code	description
<b>191109</b>	with integrated soft closing

- ☑ recommended H2 plates: screw 92592T, with euro screws 92593T, for other plates see p. 1.42



A	K			
	3	4	5	6
H 2	3	2	1	0
4	5	4	3	2

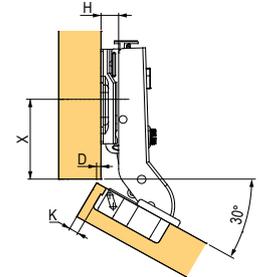
possible adjustment A ± 2 mm



## Angled 30° clip-type, screw fixation

code	description
<b>92585T</b>	with integrated soft closing system

- recommended HO plates; screw with cam 92594T, screw 92590T, with euro screws 92591T
- for other plates see p. 1.42



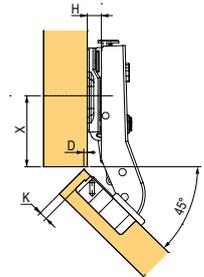
X/D	K		
	3	4	5
<b>0</b>	37/0	36/1	35/2
<b>H 2</b>	37/- 2	36/-1	35/0
<b>4</b>	37/- 4	36/-3	35/- 2

possible adjustment D ± 3 mm

## 45° angled clip-type, for screw fixing

code	description
<b>92583T</b>	with integrated soft closing system

- recommended HO plates; screw with cam 92594T, screw 92590T, with euro screws 92591T
- for other plates see p. 1.42



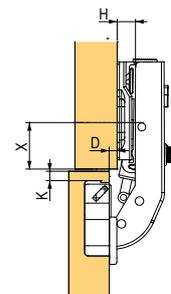
X/D	K		
	3	4	5
<b>0</b>	37/0	36/1	35/2
<b>H 2</b>	37/- 2	36/-1	35/0
<b>4</b>	37/- 4	36/-3	35/- 2

possible adjustment D ± 3 mm

## Straight 90° clip-type, screw fixation

code	description
<b>191110</b>	with integrated soft closing system

- recommended HO plates; screw with cam 92594T, screw 92590T, with euro screws 92591T
- for other plates see p. 1.42



X/D	K	
	3	4
<b>0</b>	20/0	19/0
<b>H 2</b>	20/- 2	19/- 2
<b>4</b>	20/- 4	19/- 4

possible adjustment D ± 3 mm

## Full overlay clip-type for aluminium frame

code	description
<b>92584T</b>	with integrated soft closing

- recommended HO plates; screw with cam 92594T, screw 92590T, with euro screws 92591T
- 110° opening angle
- for other plates see p. 1.42



D	K			
	3	4	5	6
<b>0</b>	14	15	16	17
<b>H 2</b>	12	13	14	15
<b>4</b>	10	11	12	13

possible adjustment D ± 3 mm



## Clip-type H0 plates

code	description
<b>92594T</b>	with cam, screw fixation
<b>92590T</b>	screw fixation
<b>92591T</b>	with euro screws



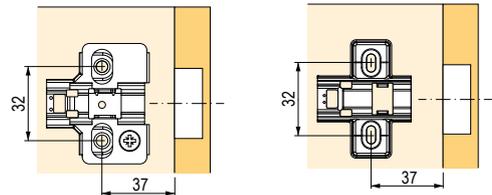
## H2 clip-type plates

code	description
<b>397954</b>	with cam, screw fixation
<b>92592T</b>	screw fixation
<b>92593T</b>	with euro screws



## H4 plates clip-type

code	description
<b>206011</b>	screw fixation
<b>206012</b>	with euro screws



## Cover caps

code	description
<b>92596T</b>	cover cap of the hinge cup
<b>92597T</b>	arm cover cap for full overlay hinges

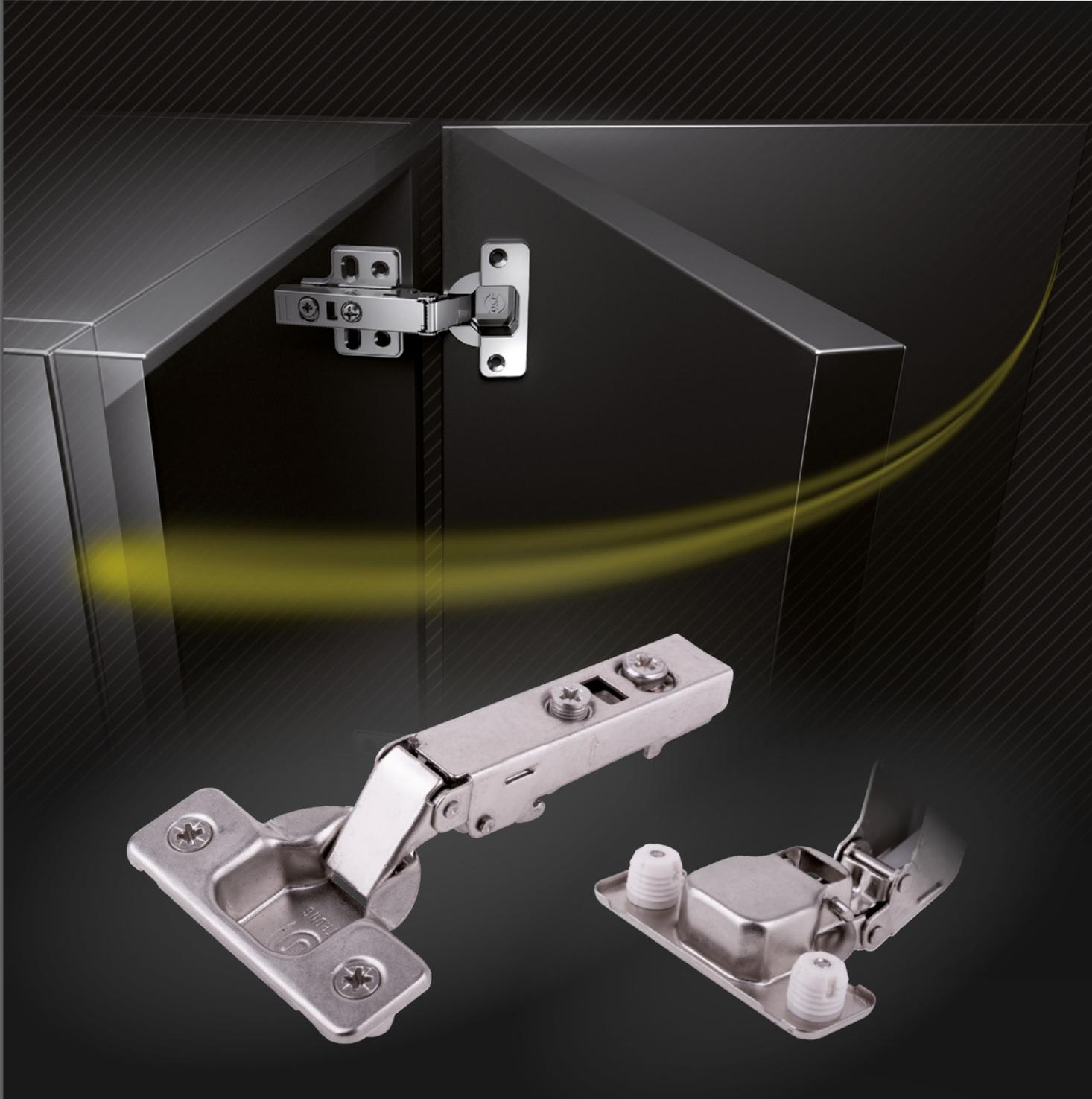


only for hinges from p. 1.39-1.41





# Strong Plus hinges



**GRAB / KNOCK-IN / NEVER TEAR OFF**  
Strong Plus with a dowel



Strong Plus  
complex  
series  
of hinges

- patented soft closing type
- high quality with long life service
- completely innovated design
- hinges can be both combined with and without soft closing
- wide offer of solutions



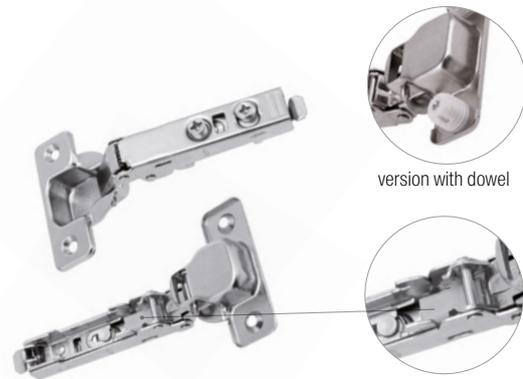
**Full overlay clip-type**

code	description
<b>350827</b>	with soft closing and cam, for screw fixing
<b>350834</b>	without soft closing, with cam, for screw fixing
<b>N 387304</b>	with soft closing and cam, with dowels Ø 10 mm
<b>350837</b>	unsprung and with cam (for handleless opening) <sup>1)</sup> , for screw fixing
<b>N 387311</b>	with cam, with dowels Ø 10 mm
<b>350840</b>	without soft closing, without cam, for screw fixing

<sup>1)</sup>for handleless opening mechanisms see p. 1.53–1.55

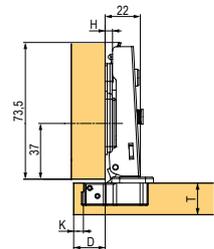
- 110° opening angle
- recommended H0 plates:, screw with cam 315856, screw 92596, with euro screws 92597

for other plates see p. 1.48



D	K			
	3	4	5	6
0	13	14	15	16
H 2	11	12	13	14
4	9	10	11	12

possible adjustment D ± 4 mm



**Sets – full overlay clip-type with soft closing and cam**

code	description
<b>350830</b>	with H0 plate, screw fixation
<b>350831</b>	with H0 plate with euro screws
<b>350832</b>	with H0 plate with cam, cover caps of cup and arm <sup>1)</sup>

- all sets come always with a **pre-mounted plate on the hinge**



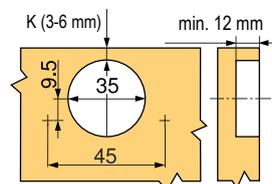
350830



350831

<sup>1)</sup>the set includes:

- 2 pcs hinge with pre-mounted plate
- 2 pcs cup cover cap
- 2 pcs hinge arm cover cap
- 8 pcs screw





### Half overlay clip-type

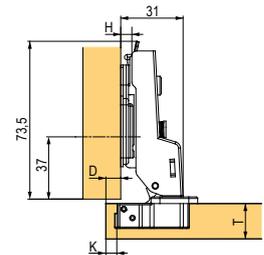
code	description
<b>350828</b>	with soft closing and cam, for screw fixing
<b>N 387307</b>	with soft closing and cam, with dowels Ø 10 mm
<b>350835</b>	without soft closing, with cam, for screw fixing
<b>350838</b>	unsprung and with cam (for handleless opening) <sup>1)</sup> , for screw fixing
<b>N 387312</b>	with cam, with dowels Ø 10 mm
<b>350841</b>	without soft closing, without cam, for screw fixing

- recommended H0 plates; screw with cam 315856, screw 92596, with euro screws 92597
- 110° opening angle
- ☑ for other plates see p. 1.48
- ☑<sup>1)</sup> for handleless opening mechanisms see p. 1.53–1.55



version with dowel

D	K			
	3	4	5	6
H 0	4	5	6	7
2	2	3	4	5
4	0	1	2	3



- possible adjustment D ± 4 mm

### Inset clip-type

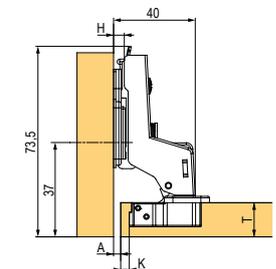
code	description
<b>350829</b>	with soft closing and cam, for screw fixing
<b>N 387310</b>	with soft closing and cam, with dowels Ø 10 mm
<b>350836</b>	without soft closing, with cam, for screw fixing
<b>350839</b>	unsprung and with cam (for handleless opening) <sup>1)</sup> , for screw fixing
<b>N 387313</b>	with cam, with dowels Ø 10 mm
<b>350842</b>	without soft closing, without cam, for screw fixing

- recommended H2 plates; screw with cam 350868, screw 92598, with euro screws 92599
- 110° opening angle
- ☑ for other plates see p. 1.48
- ☑<sup>1)</sup> for handleless opening mechanisms see p. 1.53–1.55



version with dowel

A	K			
	3	4	5	6
H 0	5	4	3	2
2	7	6	5	4
4	9	8	7	6

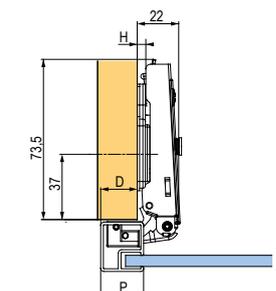


- possible adjustment A ± 4 mm

### Full overlay clip-type for aluminium frame, with cam

code	description
<b>350863</b>	with soft closing
<b>350864</b>	unsprung

- recommended H0 plates; screw with cam 315856, screw 92596, with euro screws 92597
- ☑ for other plates see p. 1.48



D	P			
	19	20	21	22
H 0	13	14	15	16
2	11	12	13	14
4	9	10	11	12

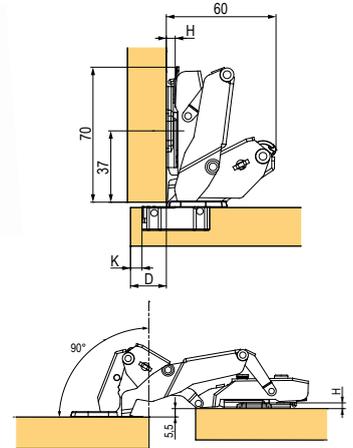
- possible adjustment D ± 4 mm



### 155° Full overlay clip-type, for screw fixing, with zero protrusion, with cam

code	description
<b>350849</b>	with soft closing
<b>350852</b>	without soft closing
<b>350853</b>	unsprung (for handleless opening) <sup>1)</sup>

- recommended H0 plates; screw with cam 315856, screw 92596, with euro screws 92597
- ☑ for other plates see p. 1.48
- ☑ <sup>1)</sup>for handleless opening mechanisms see p. 1.53-1.55



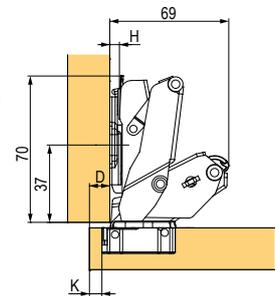
D	K			
	3	4	5	6
0	13	14	15	16
H	2	11	12	13
4	9	10	11	12

- possible adjustment  $D \pm 4$  mm

### 155° Half overlay clip-type, for screw fixing, with cam

code	description
<b>350850</b>	with soft closing
<b>350983</b>	unsprung (for handleless opening) <sup>1)</sup>

- recommended H0 plates; screw with cam 315856, screw 92596, with euro screws 92597
- ☑ for other plates see p. 1.48
- ☑ <sup>1)</sup>for handleless opening mechanisms see p. 1.53-1.55



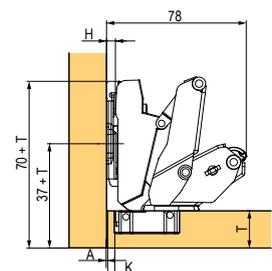
D	K			
	3	4	5	6
0	4	5	6	7
H	2	2	3	4
4	0	1	2	3

- possible adjustment  $D \pm 4$  mm

### 155° Inset clip-type, for screw fixing, with cam

code	description
<b>350851</b>	with soft closing
<b>350984</b>	unsprung (for handleless opening) <sup>1)</sup>

- recommended H2 plates; screw with cam 350868, screw 92598, with euro screws 92599
- ☑ for other plates see p. 1.48
- ☑ <sup>1)</sup>for handleless opening mechanisms see p. 1.55-1.56



A	K			
	3	4	5	6
0	5	4	3	2
H	2	7	6	5
4	9	8	7	6

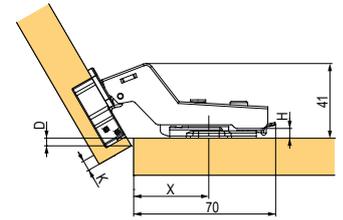
- possible adjustment  $A \pm 4$  mm



### 30° Angled clip-type for screw fixing, with cam

code	description
<b>350854</b>	with soft closing
<b>350855</b>	without soft closing
<b>350856</b>	unsprung (for handleless opening) <sup>1)</sup>

- recommended H0 plates: screw with cam 315856, screw 92596, with euro screws 92597
- ☑ for other plates see p. 1.48
- ☑ <sup>1)</sup> for handleless opening mechanisms see p. 1.53-1.55



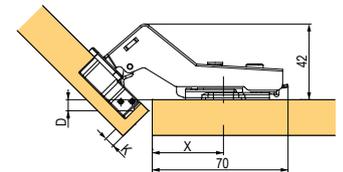
X/D	K		
	3	4	5
<b>0</b>	37/- 1.5	36/- 0.6	35/0.3
<b>H 2</b>	37/- 3.5	36/- 2.6	35/- 1.7
<b>4</b>	37/- 5.5	36/- 4.6	35/- 3.7

- possible adjustment D ± 4 mm

### 45° Angled clip-type for screw fixing, with cam

code	description
<b>350857</b>	with soft closing
<b>350858</b>	without soft closing
<b>350859</b>	unsprung (for handleless opening) <sup>1)</sup>

- recommended H0 plates: screw with cam 315856, screw 92596, with euro screws 92597
- ☑ for other plates see p. 1.48
- ☑ <sup>1)</sup> for handleless opening mechanisms see p. 1.55-1.56



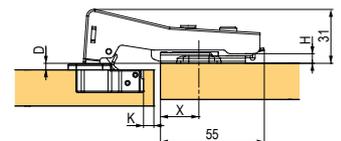
X/D	K		
	3	4	5
<b>0</b>	37/0.5	36/1.4	35/2.3
<b>H 2</b>	37/- 1.5	36/- 0.6	35/0.3
<b>4</b>	37/- 3.5	36/- 2.6	35/- 1.7

- possible adjustment D ± 4 mm

### 90° Straight clip-type for screw fixing, with cam

code	description
<b>350860</b>	with soft closing
<b>350861</b>	without soft closing
<b>350862</b>	unsprung

- recommended H0 plates: screw with cam 315856, screw 92596, with euro screws 92597
- ☑ for other plates see p. 1.48



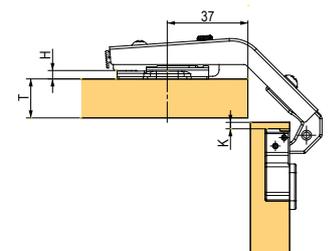
X/D	K	
	4	5
<b>0</b>	20/- 1.2	19/- 1.2
<b>H 2</b>	20/- 3.2	19/- 3.2
<b>4</b>	20/- 5.2	19/- 5.2

- possible adjustment D ± 4 mm

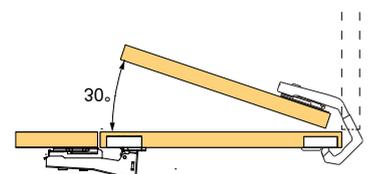
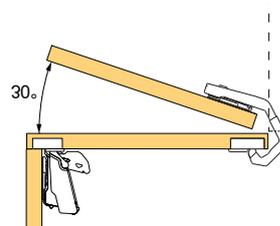
### 135° Straight cranked clip-type, for screw fixing

code	description
<b>92590</b>	without soft closing

- recommended H0 plates: screw with cam 315856, screw 92596, with euro screws 92597
- ☑ for other plates see p. 1.48



<b>T</b>	T ≤ 18	18 < T ≤ 22
<b>H</b>	<b>2</b>	<b>0</b>





### Clip-type H0 plates

code	description
<b>315856</b>	with cam, screw fixation
<b>92596</b>	screw fixation
<b>361125</b>	screw fixation with four holes
<b>92597</b>	with euro screws



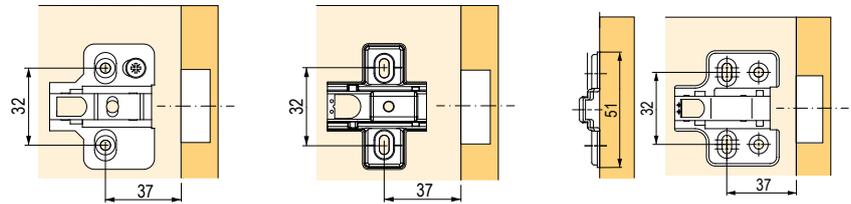
### H2 clip-type plates

code	description
<b>350868</b>	with cam, screw fixation
<b>92598</b>	screw fixation
<b>361126</b>	screw fixation with four holes
<b>92599</b>	with euro screws



### H4 plates clip-type

code	description
<b>350869</b>	with cam, screw fixation
<b>350870</b>	screw fixation
<b>361127</b>	screw fixation with four holes
<b>350871</b>	with euro screws



### Cover caps

code	description
<b>350865</b>	cover cap of the hinge cup
<b>350866</b>	arm cover cap for full overlay hinges
<b>350867</b>	arm cover cap for half overlay and inset hinges



Can be printed with any logo.



# Strong slide-on hinges

- high quality with long life service
- completely innovated design
- newly available version with patent soft closing type
- hinges can be both combined with and without soft closing
- wide offer of solutions



## Full overlay slide-on

code	description
<b>350844</b>	without soft closing
<b>350843</b>	with soft closing <sup>1)</sup>
<b>351855</b>	without soft closing, with pre-mounted euro screws

<sup>1)</sup> a new solution for damper, the hinge can be demount from the plate

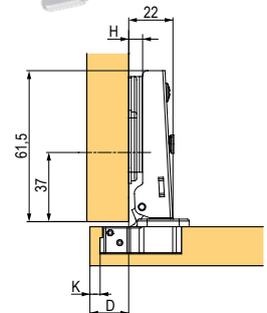
- recommended H0 plates: screw 350872, with euro screws 350875
- identical hinge design with version without soft closing

🔧 for other plates see p. 1.50



D	K			
	3	4	5	6
0	13	14	15	16
H 2	11	12	13	14
4	9	10	11	12

🔧 possible adjustment D ± 4 mm



## Sets – full overlay slide-on

code	description
<b>350847</b>	without soft closing, H0, screw fixation
<b>350848</b>	without soft closing, H0 with euro screws

- all sets come always with a pre-assembled plate on the hinge



## Half overlay slide-on

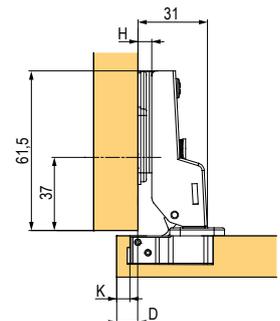
code	description
<b>350845</b>	without soft closing

- recommended H0 plates: screw 350872, with euro screws 350875

🔧 for other plates see p. 1.50

D	K			
	3	4	5	6
0	4	5	6	7
H 2	2	3	4	5
4	0	1	2	3

🔧 possible adjustment D ± 4 mm



## Inset slide-on

code	description
<b>350846</b>	without soft closing

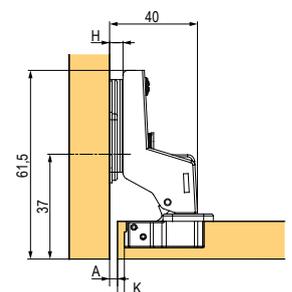
- recommended H2 plates: screw 350873, with euro screws 350876

🔧 for other plates see p. 1.50



A	K			
	3	4	5	6
0	5	4	3	2
H 2	7	6	5	4
4	9	8	7	6

🔧 possible adjustment A ± 4 mm





### Slide-on H0 plates

code	description
<b>350872</b>	screw fixation
<b>350875</b>	with euro screws



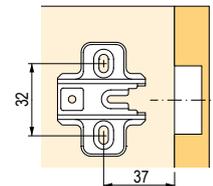
### Slide-on H2 plates

code	description
<b>350873</b>	screw fixation
<b>350876</b>	with euro screws



### Slide-on H4 plates

code	description
<b>350874</b>	screw fixation
<b>350877</b>	with euro screws



### Cover caps

code	description
<b>350865</b>	cover cap of the hinge cup
<b>350866</b>	arm cover cap for full overlay hinges
<b>350867</b>	arm cover cap for half overlay and inset hinges

- only for full overlay hinges with option of logo printing



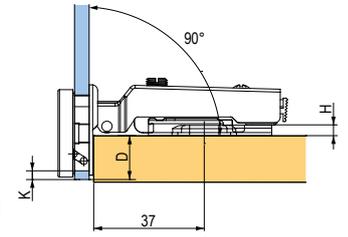
Can be printed with any logo.



## Full overlay clip-type for glass doors

code	description
<b>198893</b>	without soft closing

- for 4 mm thick glass
- ☑ 95° opening angle, recommended H0 plates: screw with cam 315856, screw 92596, with euro screws 92597, for other plates see p. 1.48



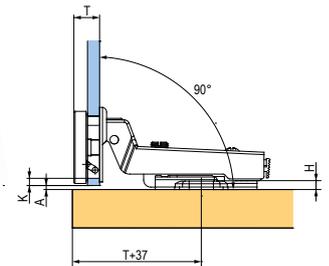
D	K			
	3	4	5	6
H 0	14	15	16	17
H 2	12	13	14	15

☑ possible adjustment D ± 4 mm

## Inset clip-type for glass doors

code	description
<b>198894</b>	without soft closing

- for 4 mm thick glass
- 95° opening angle
- ☑ recommended H0 plates: screw with cam 315856, screw 92596, with euro screws 92597, for other plates see p. 1.48



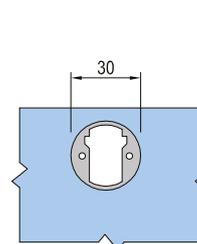
A	K			
	3	4	5	6
H 0	4	3	2	1
H 2	6	5	4	3

possible adjustment A ± 4 mm

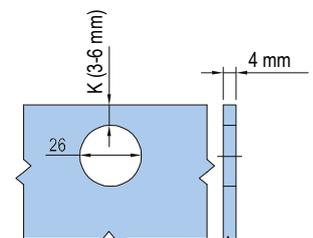
## Counterpart with cup cover cap for glass doors

code	description
<b>198896</b>	circular, chrome
<b>198897</b>	circular, matt nickel
<b>198898</b>	circular, black

- delivery including mounting screws



cover cap diameter



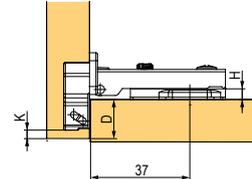
drilling diameter



### Mini full overlay slide-on

code	description
<b>92521</b>	without soft closing, including H0 plate, screw fixation
<b>92528</b>	without soft closing, including H0 plate with euro screws

- 95° opening angle
- maximum door thickness 22 mm



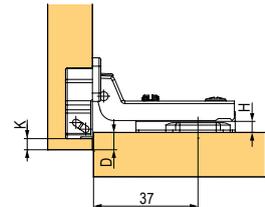
D	K		
	3	4	5
H 0	12	13	14

possible adjustment D is  $\pm 2$  mm

### Mini half overlay slide-on

code	description
<b>92522</b>	without soft closing, including H0 plate

- 95° opening angle
- maximum door thickness 22 mm



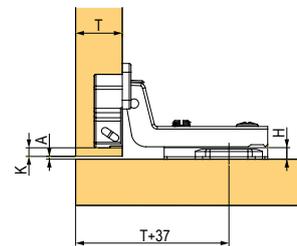
D	K		
	3	4	5
H 0	4	5	6

possible adjustment D is  $\pm 2$  mm

### Mini inset slide-on

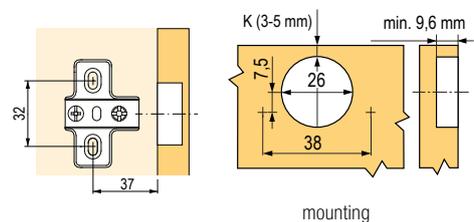
code	description
<b>92523</b>	without soft closing, including H0 plate

- 95° opening angle
- maximum door thickness 22 mm



A	K		
	3	4	5
H 0	1	2	3

possible adjustment A is  $\pm 2$  mm





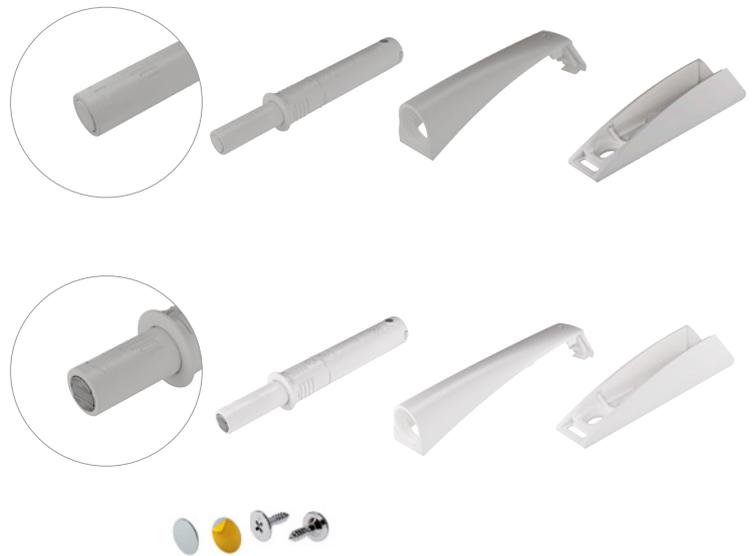
## Handleless opening K-PUSH

- system for handleless door opening
- two lengths, white and grey design
- drilling or adapters option
- high quality, reliability, functionality
- possible combination with lifts (extra strong version, 37 mm)



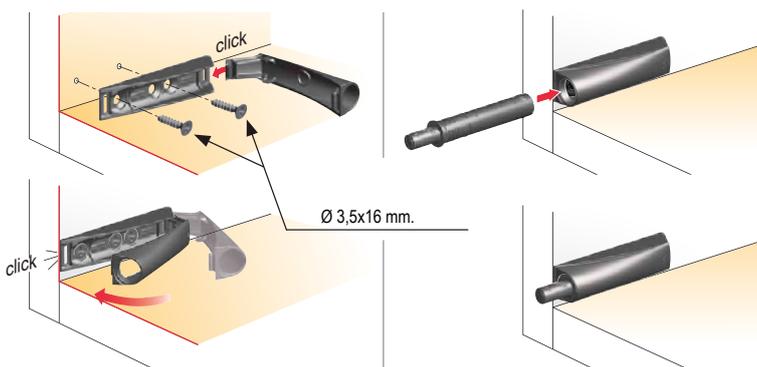
### K-push sets with adapter

code	type	output path length (mm)	force	colour
<b>227072</b>	with buffer	37	normal	grey
<b>349997</b>				white
<b>227074</b>			extra strong	grey
<b>349998</b>				white
<b>227066</b>	14	normal	grey	
<b>349996</b>			white	
<b>227078</b>	with magnet	37	normal	grey
<b>350000</b>				white
<b>227080</b>			extra strong	grey
<b>350001</b>				white
<b>227076</b>		14	normal	grey
<b>349999</b>				white

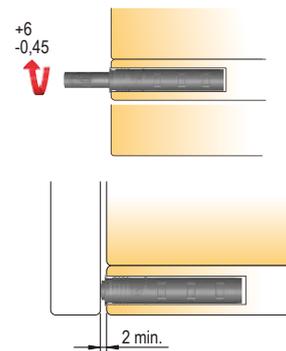


suitable in combination with unsprung hinges, see p. 1.44

set with adapter



(mounting on cabinet body)



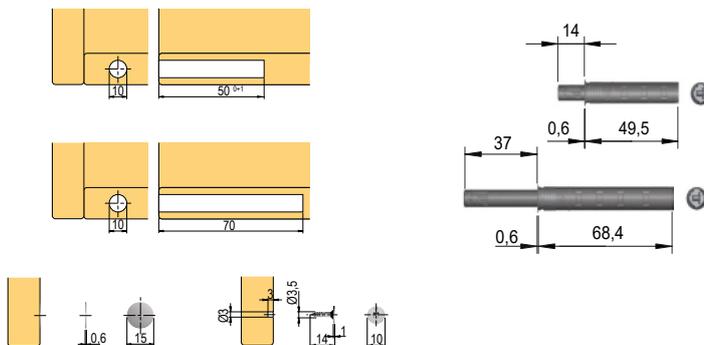
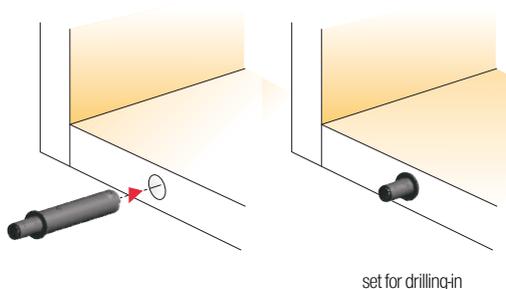
adjustment of the gap between the door and the cabinet body





**K-push sets for drilling-in**

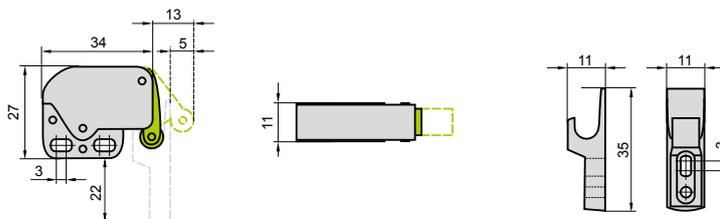
code	type	output path length (mm)	force	colour
<b>227073</b>	with buffer	37	normal	grey
<b>227075</b>			extra strong	
<b>227071</b>	with magnet	14	normal	
<b>227079</b>			extra strong	
<b>227081</b>	with magnet	37	normal	
<b>227077</b>			extra strong	
		14	normal	



**Handleless opening mechanism**

description	description
<b>92985</b>	metal + plastic

- plastic counterpart can also be purchased separately as 165458 code
- ☑ suitable in combination with unsprung hinges, see p. 1.44





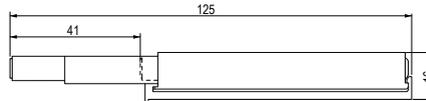
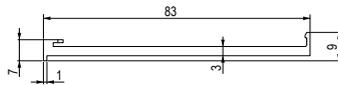
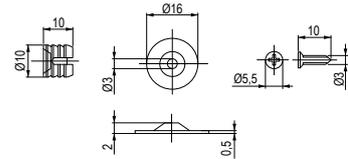
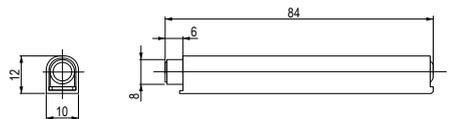
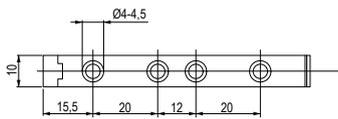
**N Handleless opening mechanism**

description	colour	
	white	grey
sets with adapters	<b>399709</b>	<b>399708</b>

- magnetic PTO mechanism with cabinet body fixation

Packaging includes:

- PTO mechanism
- adapter
- 3 screws
- counterpart plate for screw
- dowel 10 mm diameter

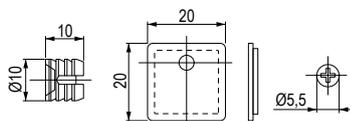
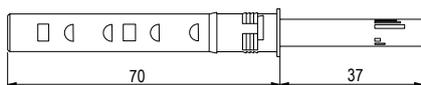
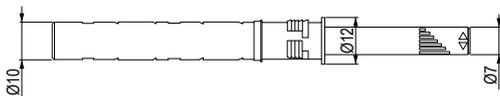


description	description
<b>399710</b>	drilling set – light grey

- magnetic PTO mechanism for 10 mm drilling hole

Packaging includes:

- PTO mechanism
- screw with dowel 10 mm diameter (for possible fixing of the counterpart plate)
- counterpart plate with M3 tape



# concealed hinges with soft closing



## N Concealed hinge

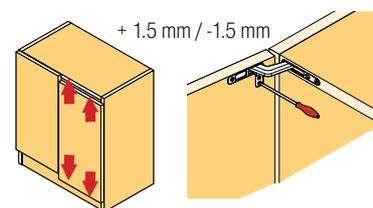
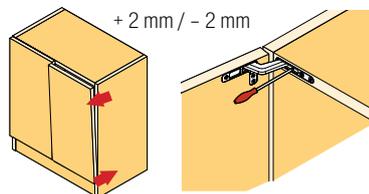
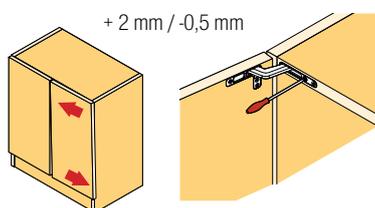
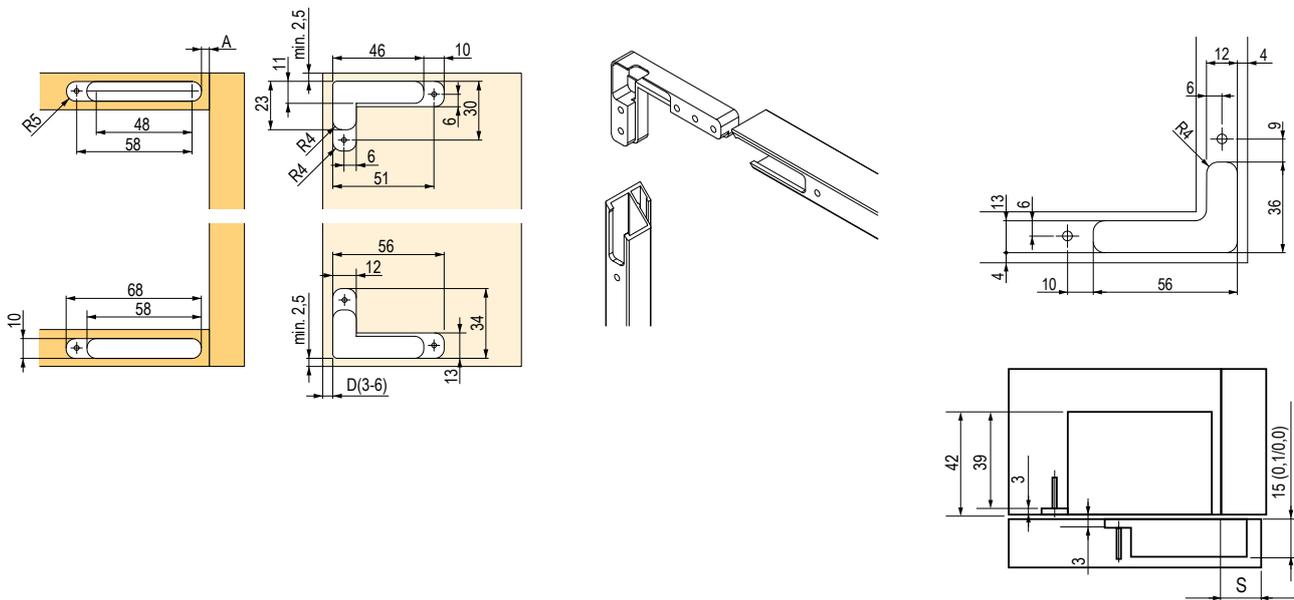
code	colour	description
<b>403128</b>	black	with damped tightening
<b>403126</b>		unsprung
<b>403131</b>	nickel	with damped tightening
<b>403129</b>		unsprung



- the minimum door and cabinet body thickness is 18 mm
- 105° opening angle
- maximum door width 600 mm, maximum door height 2,000 mm, maximum door weight 20 kg
- in the damped version, the soft closing system is integrated in the hinge

### ACCESSORIES

code	description
<b>403132</b>	adapters for aluminium frames (pair)
<b>403133</b>	black hinge cover caps (pair)
<b>403134</b>	grey hinge cover caps (pair)

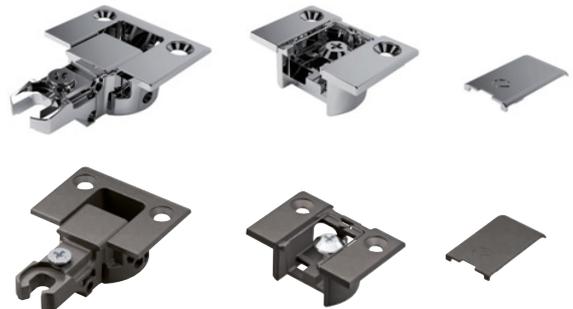
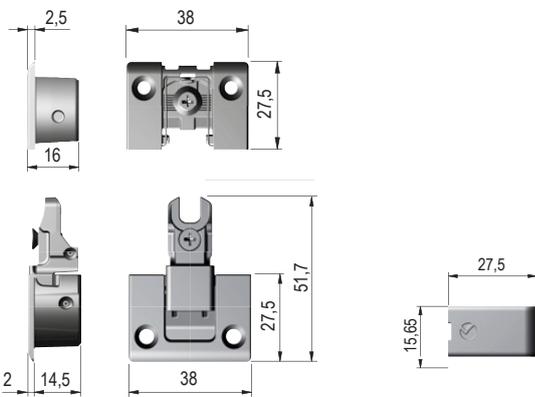




### Kimana hinge for bottom lifting doors

code	surface treatment
<b>224888</b>	zinc
<b>352521</b>	graphite

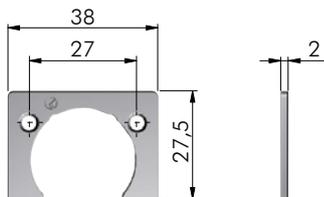
- modern compact design
- adjustment in 3 directions
- for material thickness of 18-20 mm



#### Plate for the Kimana hinge

code	description
<b>355723</b>	thickness 2 mm

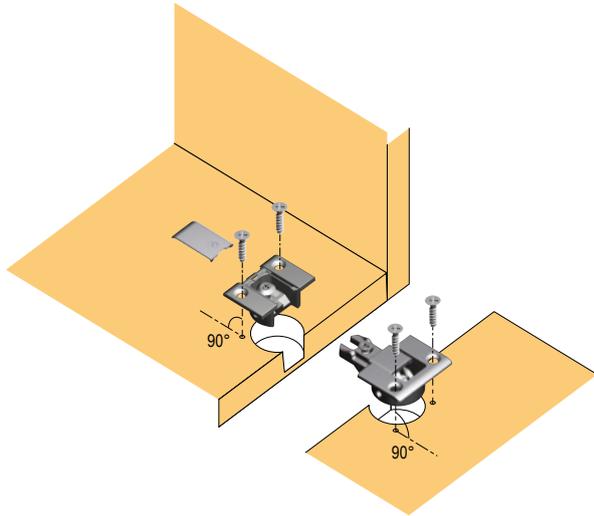
- when using thinner materials (e.g. cabinet body thickness of 16 mm)





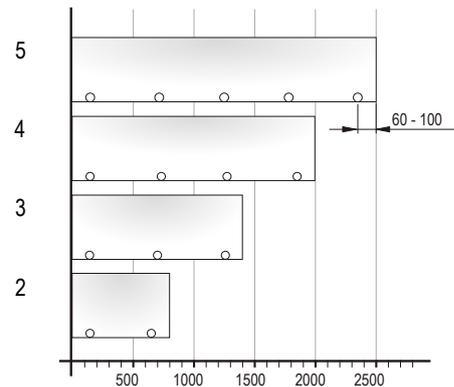
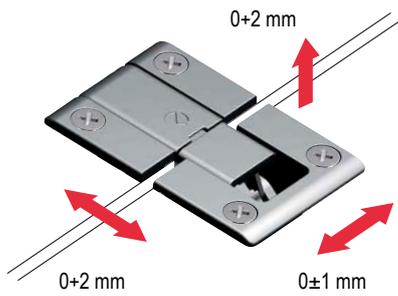
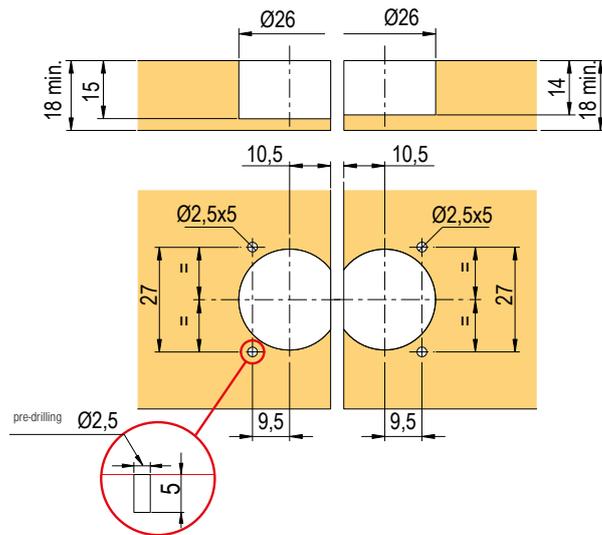
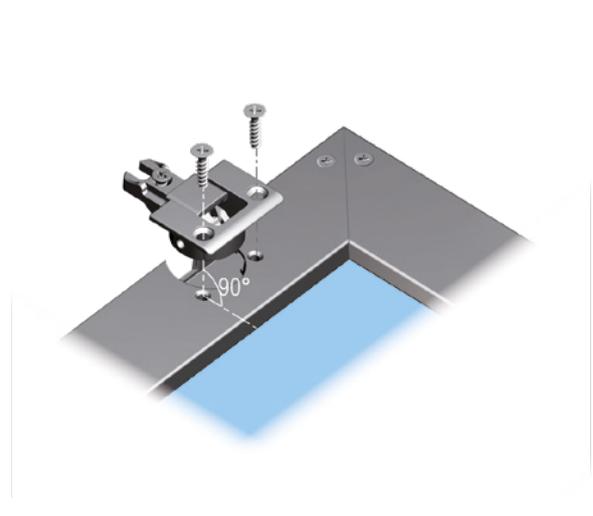
**installation into full doors**

(example for doors with minimum thickness of 18 mm)



**installation into doors from wide aluminium frame**

(example for doors with minimum thickness of 18 mm)





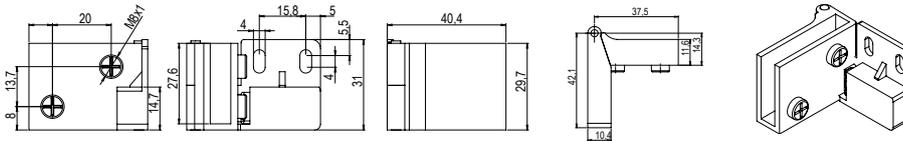
# other hinges

## Hinge for Diza non-drilled glass doors

code	description	surface
<b>10800</b>	pair	chrome
<b>404576</b>	pair	black

N

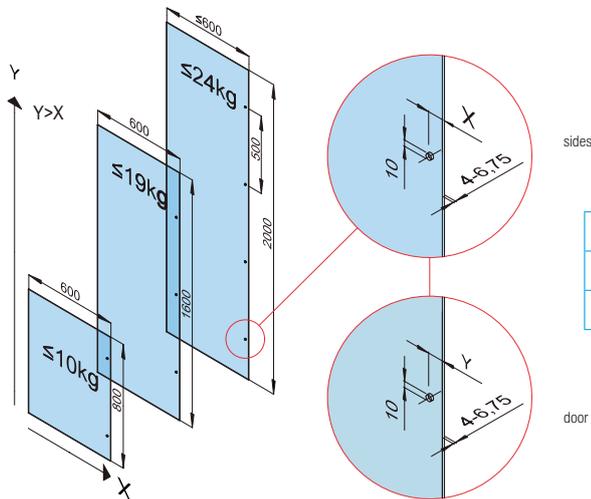
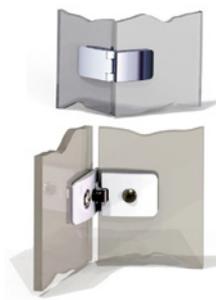
- maximum glass thickness of 5 mm
- with locking in the closed position (at 90°)



## See-Me hinge for glass doors

code	description
<b>225244</b>	chrome 180° R/L
<b>225245</b>	aluminium 180° R/L

- for both glass and wooden body
- for glass thickness of 4-6.75 mm
- drilling for connecting bolt, diameter 10 mm
- 180° opening angle
- mounting on any side: left, right, top, bottom



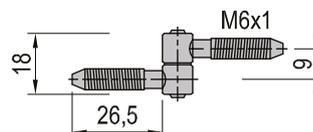
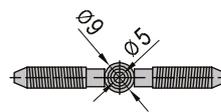
sides

x/D	x	y
inset	22 mm	25 mm
full overlay	25 mm	22 mm

door

## Hinge for screwing-on

code	description
<b>11011</b>	Mark I, zinc
<b>11014</b>	Mark II, antique brass

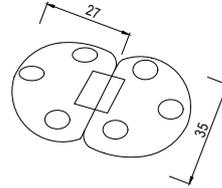




## Hinge for extendable tables

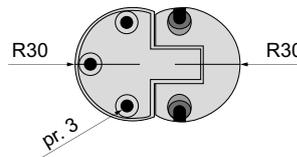
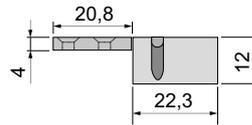
code	colour
<b>10902</b>	chrome 180° R/L

- hinge depth 7 mm



## Hinge for folding doors

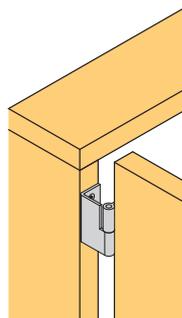
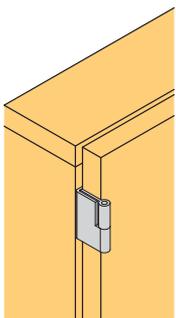
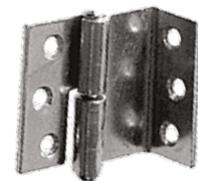
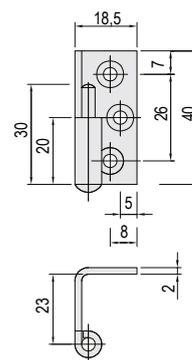
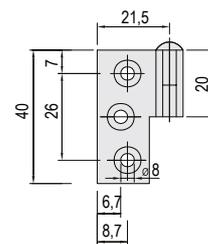
code	colour
<b>225246</b>	white
<b>225247</b>	brown



## NK 125/16 hinge for full overlay doors

code	description
<b>11008</b>	left
<b>11007</b>	right

- galvanised
- minimal cabinet body thickness of 16 mm

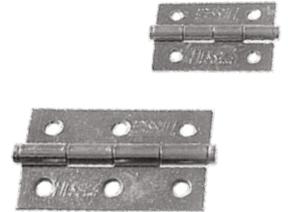
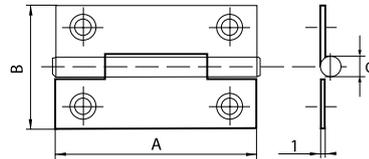




# other hinges

## KZ 40, 60, 80 hinge

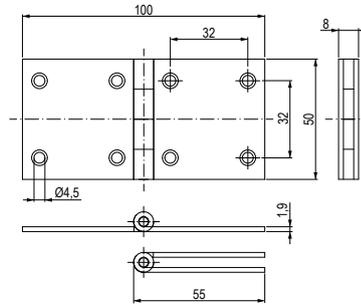
code	„A“ (mm)	„B“ (mm)	„C“ (mm)	colour
<b>11016</b>	40	30	5.5	zinc
<b>11017</b>	60	40	7	zinc
<b>11020</b>	60	40	7	brass
<b>100164</b>	80	70	7	zinc



## Hinge 50 × 50

code	description
<b>392591</b>	galvanised steel

- the outer diameter of the peg and the thickness of the closed hinge is 8 mm
- sheet thickness of 1.9 mm

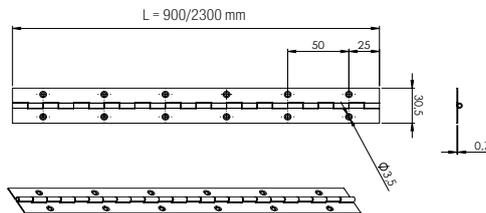


## Stainless steel piano hinge

N

code	description
<b>402794</b>	length 900 mm, width 30.5 mm, stainless steel
<b>402800</b>	length 2,300 mm, width 30.5 mm, stainless steel

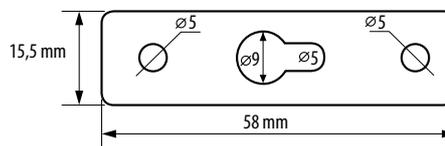
- material stainless steel (SS201) including internal pin



## Bayonet hinge

code	description
<b>11022</b>	zinc
<b>11022R</b>	galvanised, economy

- material thickness of 1.5 mm





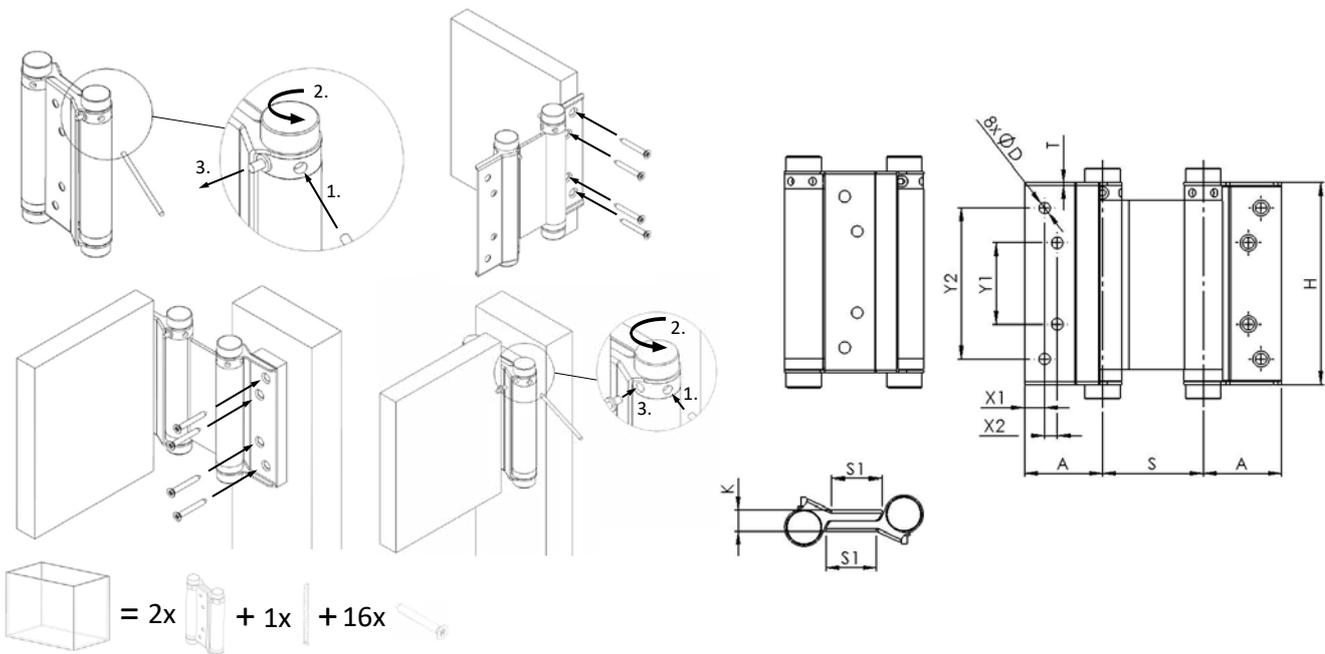
### N Stainless steel hinge for bidirectional doors, so-called western

code	size (mm)	H ± 2 (mm)	S ± 2 (mm)	S1 ± 2 (mm)	A ± 2 (mm)	T ± 0.5 (mm)	D ± 0.5 (mm)	K ± 2 (mm)
<b>392257</b>	75	76	51	27	39.5	1.5	5.5	11
<b>392258</b>	100	102	51	27	39.5	1.5	5.8	11
<b>392259</b>	125	125	63	37	45	1.5	6.5	11
<b>392261</b>	150	152	63.5	37	45	1.5	6.8	11

- material stainless steel
- possibility of adjusting the closing/locking spring

The package contains:

- one pair of hinges
- spring adjustment thick
- screws (16 pcs)



for mounting screws and euro screws see p. 73 -718

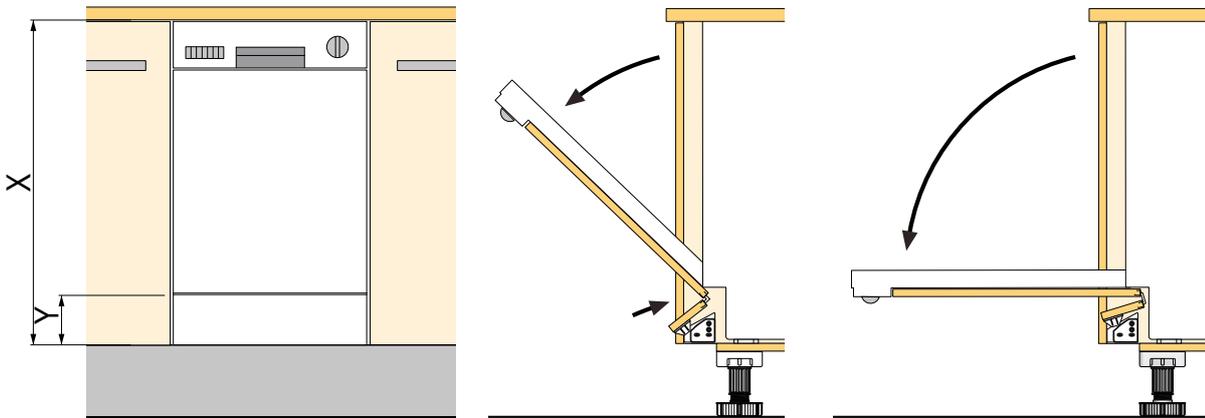


# other hinges

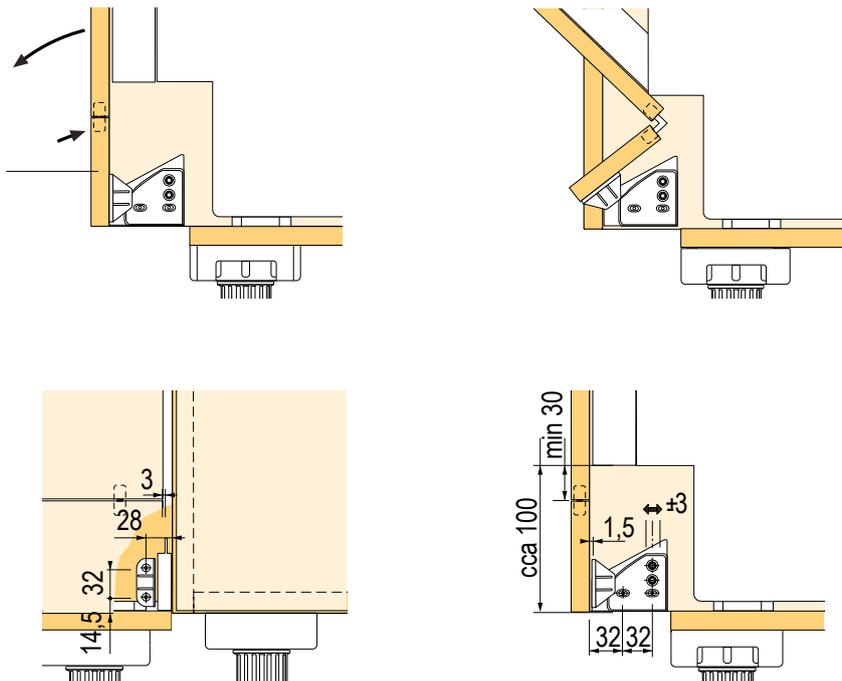
## Hinge for built-in dishwasher

code	description
<b>171331</b>	for high cabinet body

❗ it is necessary to supply with 2 pcs of hinges with order code 10905 or 103964



- X and Y values depend on the specific installation and type of dishwasher
- the values of the height of the folded part (approx. 100 mm) and the protrusion of the door (min. 30 mm) are only indicative





# Overview of cabinet hangers



Adjustable cabinet  
hangers  
Italiana Ferramenta

APC 1	p.	1.65
APC 6	p.	1.66
Libra H1	p.	1.67
Libra H2	p.	1.68
Libra H7	p.	1.69–1.70



Adjustable cabinet  
hangers  
and wall bars  
Italiana Ferramenta

wall plates	p.	1.71
other cabinet hangers	p.	1.72



Other adjustable cabi-  
net hangers

Scilm	p.	1.73
Strong	p.	1.74
wall plates	p.	1.74
Bystrica and others	p.	1.75–1.76



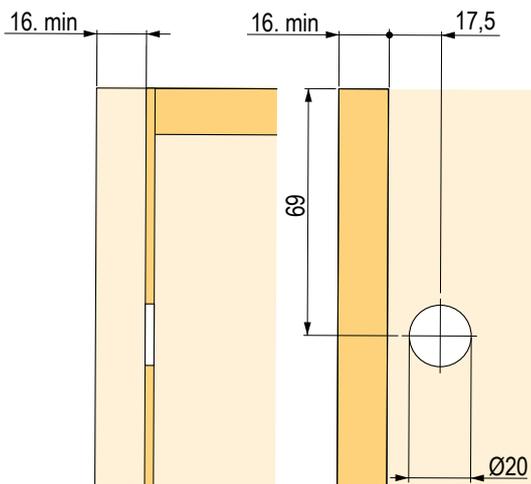
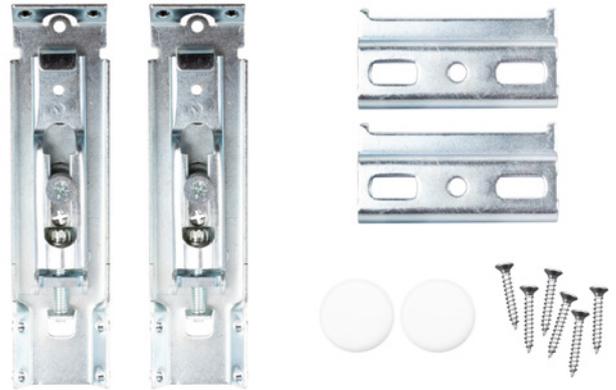
**N APC 1 cabinet hanger**

code	description
<b>396226</b>	concealed adjustable cabinet hanger, set

- adjustable cabinet hanger for the right and left side, hidden behind the back panel of the cabinet
- only the 20 mm diameter cover cap is visible from the front
- mounting by screw fixing into the wall and cabinet body
- possibility of horizontal and vertical adjustment
- load capacity 75 kg/pc, 150 kg/pair

Set contains:

- one pair of hanger
- wall plates
- white plastic cover cap
- screws into the cabinet body (6 pcs)





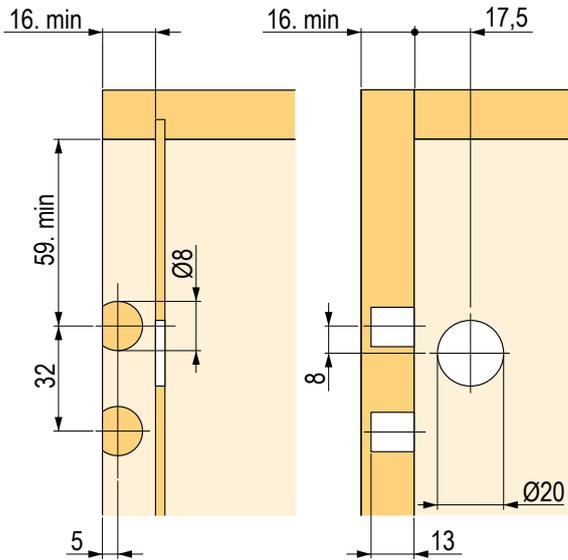
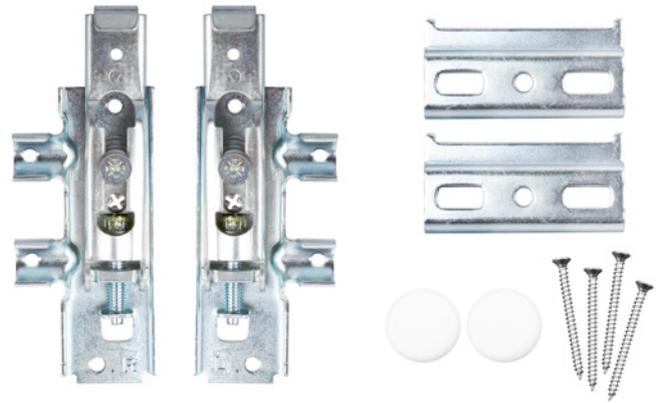
**N APC 6 cabinet hanger**

code	description
<b>396227</b>	concealed adjustable cabinet hanger, set

- adjustable cabinet hanger for the right and left side, hidden behind the back panel of the cabinet
- only the 20 mm diameter cover cap is visible from the front
- mounting by screw fixing into the wall and cabinet body
- possibility of horizontal and vertical adjustment
- load capacity 75 kg/pc, 150 kg/pair

Set contains:

- one pair of hangers
- wall plates
- white plastic cover cap
- screws into the cabinet body (6 pcs)





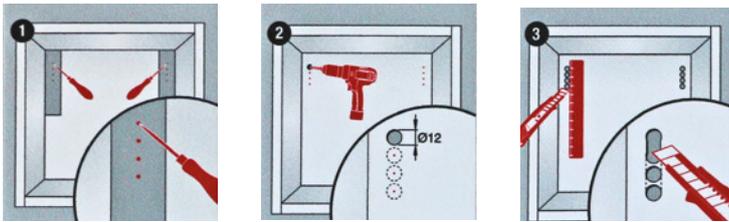
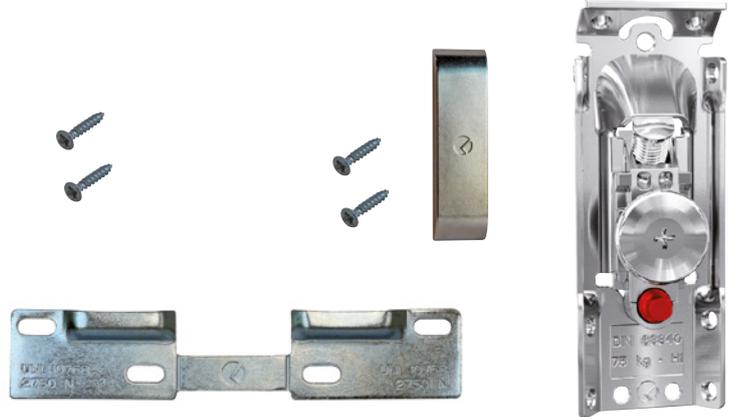
## Libra H1 cabinet hangers with locking

code	description
<b>361269</b>	set for one cabinet (including template)

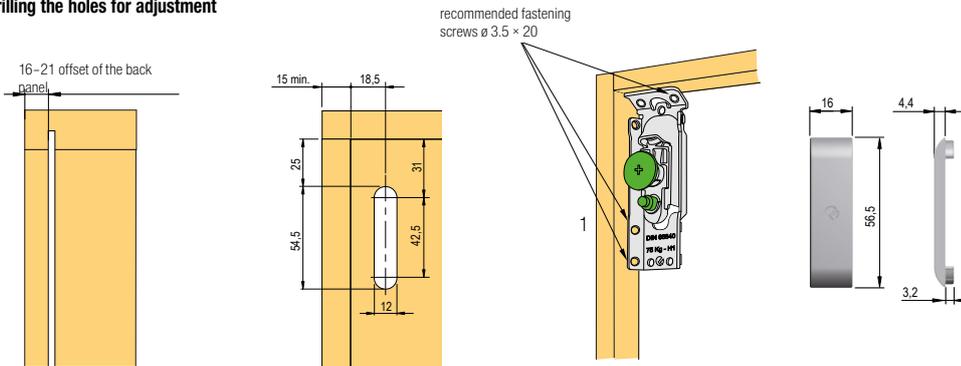
- locking bolt against unHINGING of the cabinet in accordance with the standard EN14749
- load capacity 150 kg/pair
- height adjustment 13 mm, depth adjustment 12 mm
- for cabinet body depth up to 350 mm (top cabinets)
- for mounting on the wall, the 352537 rail can also be used

Set contains:

- pair of cabinet hangers and cover caps
- mounting template
- wall plate
- screws into the cabinet body



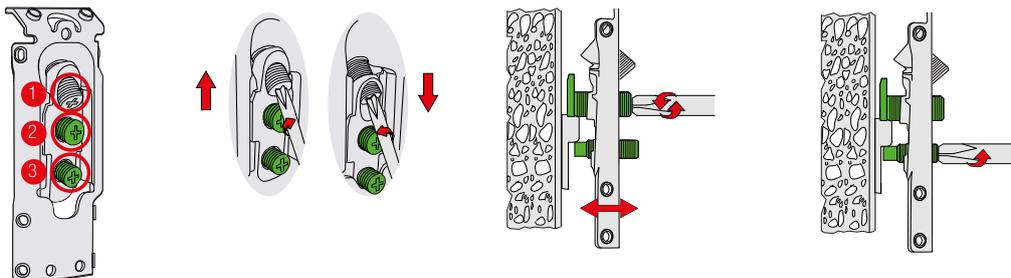
### Installation of the cabinet hangers drilling the holes for adjustment



1 - height adjustment

2 - adjustment of offset from the wall

3 - safety latch against unHINGING



for hinges see p. 1.39-1.52, for lift fittings see p. 1.92-1.114  
 for screws and euro screws see p. 7.3-7.18



**Libra H2 cabinet hangers with locking**

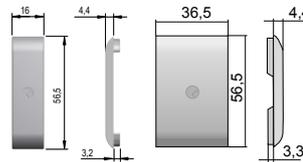
code	description
<b>134959</b>	right-left, screw mounting

- locking bolt against unHINGING of the cabinet in accordance with the standard EN14749
- load capacity 150 kg/pair
- the back should be inserted 16 mm from the back edge of the cabinet body
- height adjustment 13 mm, depth adjustment 12 mm
- for cabinet body depth up to 350 mm (top cabinets)

☑ recommended wall plate 352537, or 134964 or 134965, p. 1.71

**Cover caps**

code	type	colour
<b>134963</b>	wide	white
<b>160564</b>		grey
<b>227087</b>	narrow	nickel

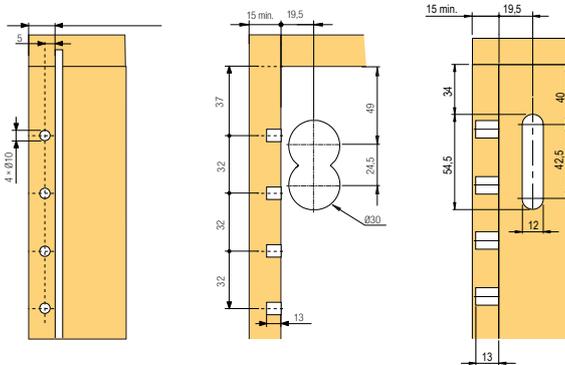


<sup>1)</sup>for drilling 30 mm

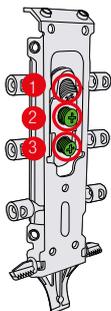
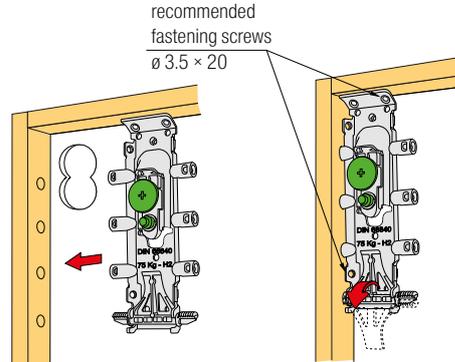


**Drilling plan for fixing option**

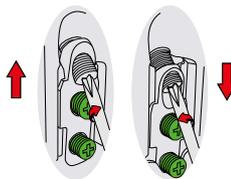
16-21 offset of the back panel



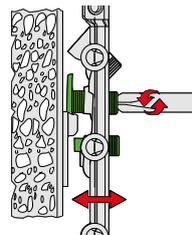
**Installation of the cabinet hangers**



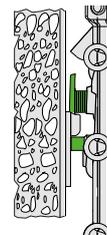
1 - height adjustment



2 - adjustment of offset from the wall



3 - safety latch against springing up



☑ for hinges see p. 1.39-1.52, for lift fittings see p. 1.92-1.114

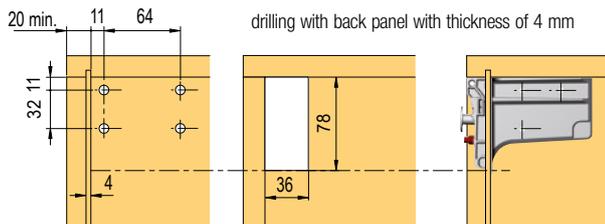
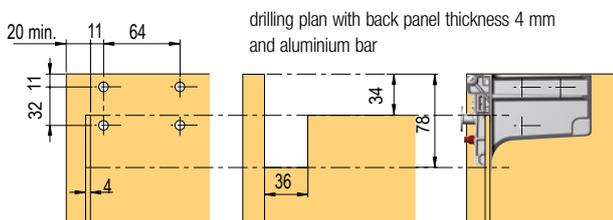
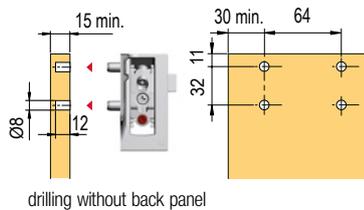
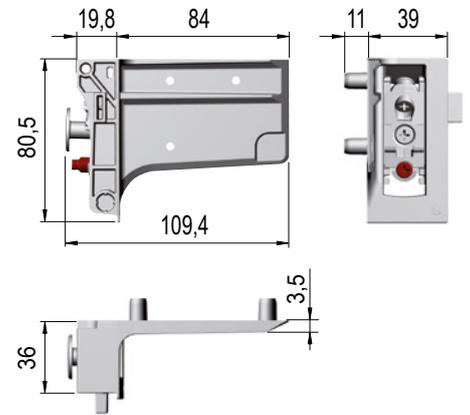
☑ for screws and euro screws see p. 7.3-7.18



## Libra H7 cabinet hanger with locking

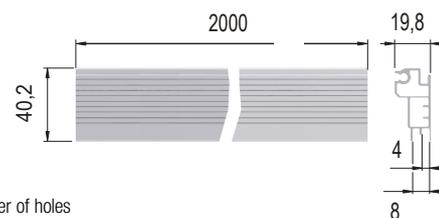
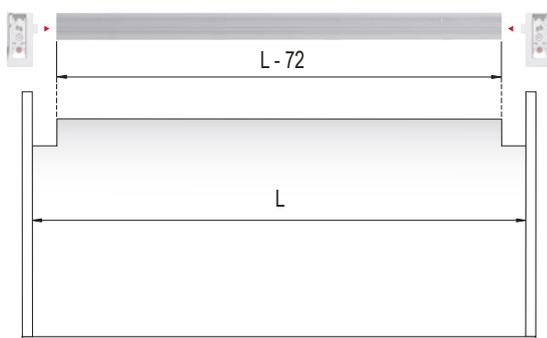
code	description
<b>231361</b>	set of hangers for one cabinet
<b>231362</b>	aluminium profile, 2 m

- Notes:
  - locking bolt against unHINGING of the cabinet in accordance with the standard EN14749
  - load capacity up to 210 kg
  - height adjustment 13 mm, depth adjustment 12 mm
  - flat design of cabinet hanger (only 3.5 mm), possibility of using a deep drawer without limitations
  - load capacity of the hangers affects the type of anchor and base material
  - the set includes - a pair of cabinet hangers, wall plate WP5 and fixing accessory



examples of use

optimal number of fixing holes according to the recommendations and consideration of the installer



recommended number of holes

outer width of the cabinet body	number of holes
≤ 450	-
451 - 600	1
601 - 950	2
951 - 1200	3
≥ 1201	4

# adjustable hinges for bottom cabinets



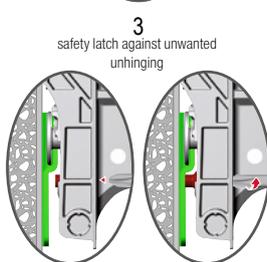
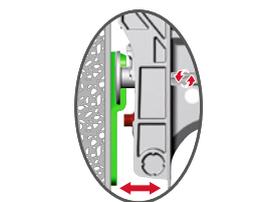
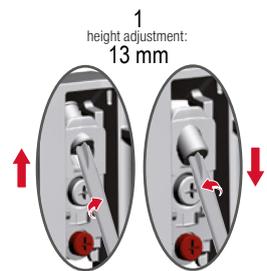
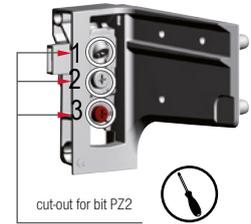
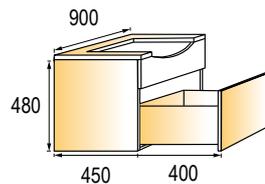
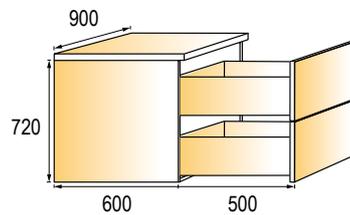
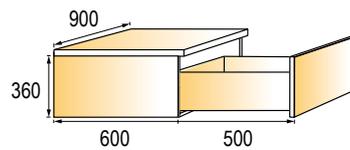
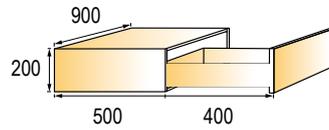
## Load capacity depending on cabinet body dimensions

cabinet body type	without using a profile	with profile with two anchor holes
cabinet body without a drawer	120 kg	160 kg
cabinet body + drawer	80 + 30 kg	120 + 30 kg

cabinet body type	without using a profile	with profile with two anchor holes
cabinet body without a drawer	150 kg	180 kg
cabinet body + drawer	110 + 30 kg	140 + 30 kg

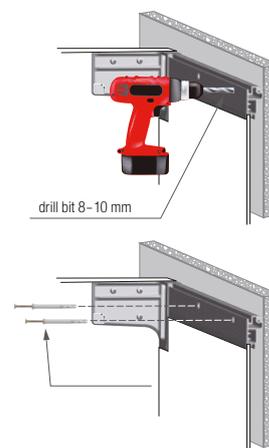
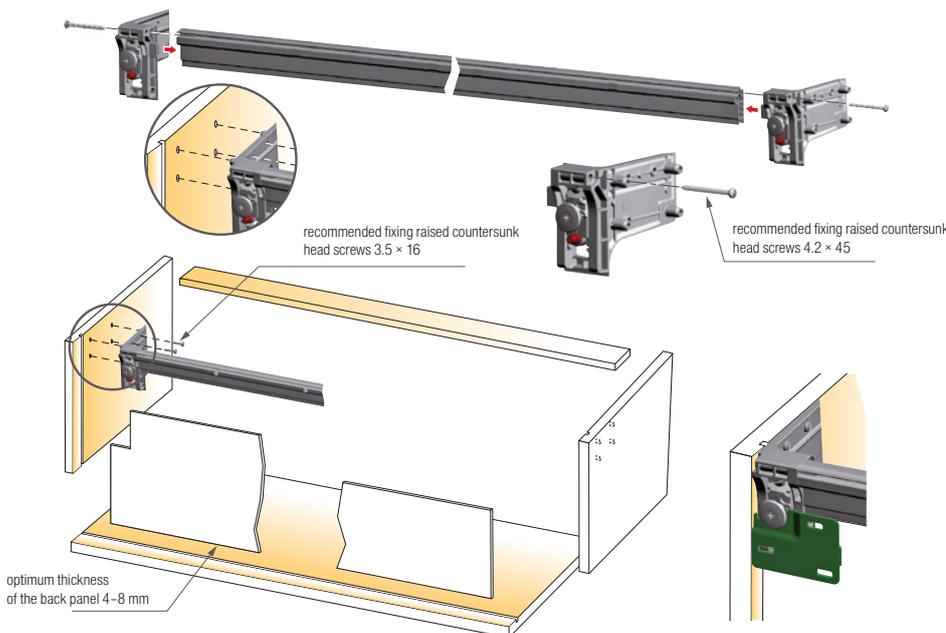
cabinet body type	without using a profile	with profile with two anchor holes
cabinet body without a drawer	170 kg	210 kg
cabinet body + drawer	100 + 60 kg	140 + 2 × 30 kg

cabinet body type	without using a profile	with profile with two anchor holes
cabinet body without a drawer	170 kg	210 kg
cabinet body + drawer	130 + 30 kg	170 + 30 kg



extra fixing holes  
Pre-drilled holes facilitate drilling the wall.  
Their use reduces the stress put on the left- and right-sided hinges.

❗ The reported data, empirically obtained, exclusively refer to the constructions and examples shown, correctly positioned and assembled by using wall plate.



### ❗ RESPONSIBILITY OF THE INSTALLER

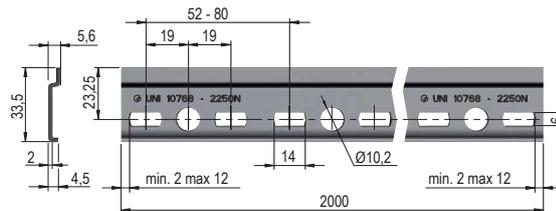
- to find out whether the wall onto which the cabinet will be hinged is sufficiently strong and well adjusted
- to adapt mounting and suspension to the wall quality



### Suspension rail B3

code	description
<b>352537</b>	suspension rail B3, length 2,000 mm

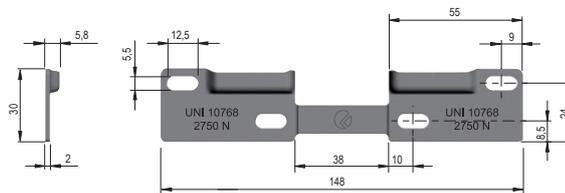
- stainless steel profile with a thickness of 2 mm
- suitable for Libra fittings with securing against unhooking of the cabinet



### Wall plate

code	description
<b>134964</b>	wall plate R + L

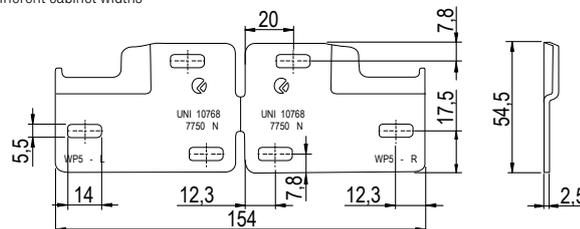
- possibility of side adjustment (oval holes)
- the wall plate can be split in two pieces (L + R) and used for different cabinet widths or it can be used in one piece for cabinet width of 150 mm
- suitable for Libra hangers with securing against unhooking of the cabinet



### Wall plate

code	description
<b>134966</b>	wall plate R + L

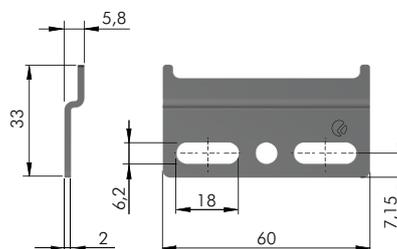
- possibility of side adjustment (oval holes)
- the wall plate can be split in two pieces (L + R) and used for different cabinet widths or it can be used in one piece for cabinet width of 150 mm
- suitable for Libra hangers with securing against unhooking of the cabinet



### Wall plate

code	description
<b>389592</b>	width 60 mm

- anti-slip side buffers
- suitable for Libra fittings with securing against unhooking of the cabinet



☐ for screws and euro screws see p. 7.3-7.18

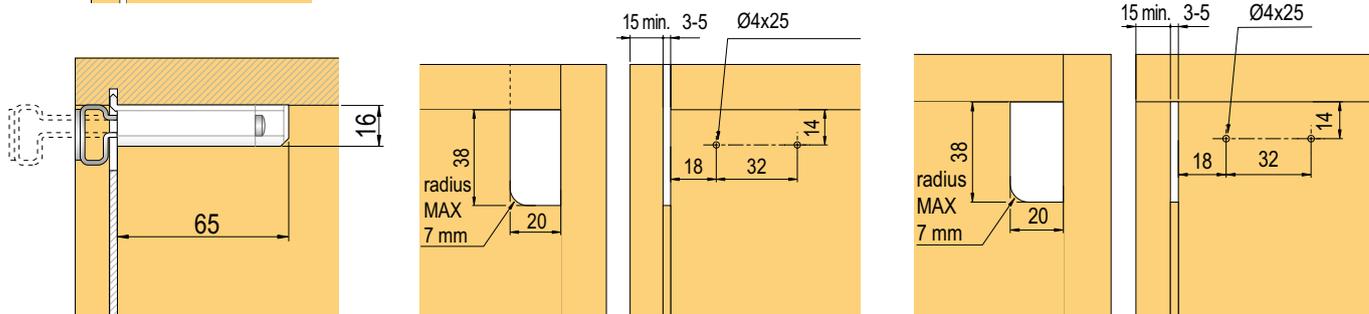
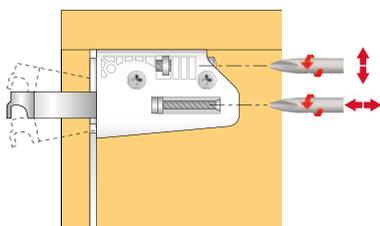
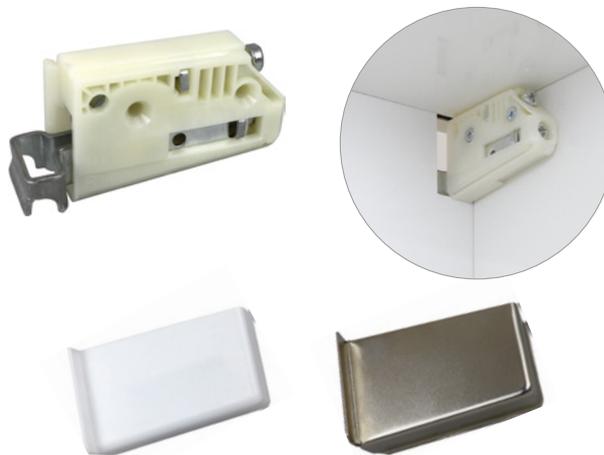
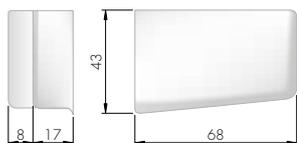
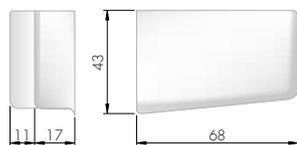


**Adjustable cabinet hangers, set**

code	colour
<b>361279</b>	white
<b>361280</b>	nickel

- Set contains:
  - pair of cabinet hangers
  - pair of cover caps

- load capacity 65 kg/pair
- ☑ for recommended bars see p. 1.71

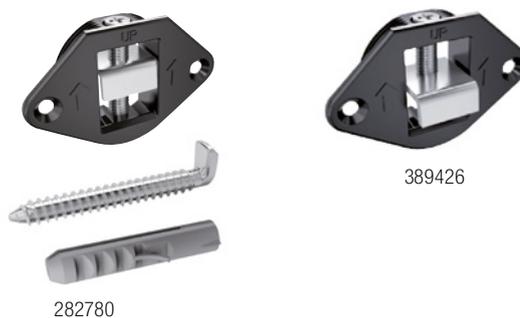


**Cabinet hanger**

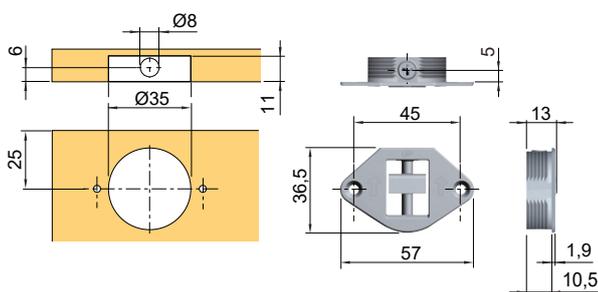
code	description
<b>282480</b>	for suspension of panels with hook and rawlplug
<b>389426</b>	for suspension of panels on bar

- for mirrors on LDF, view panels, fixed-back cabinets with min. thickness 15 mm
- adjustable in two directions: vertically by 11 mm, horizontally by 10 mm
- load capacity: panel, mirror up to 80 kg/pair, cabinet 50 kg/pair (tested on a cabinet body 600 × 600 × 250 mm)

- ☑ for recommended bars see p. 1.71



- Set contains:
- fittings
  - rawlplug
  - hook



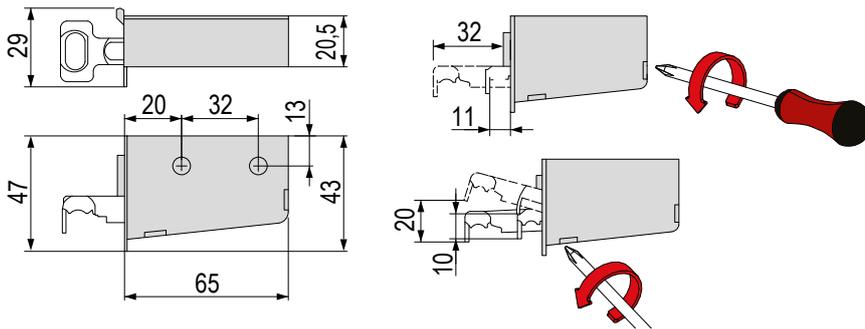


# adjustable cabinet hangers

## Scilm cabinet hanger

code	colour	design
<b>82771</b>	white	left
<b>82774</b>		right
<b>82770</b>	brown	left
<b>82773</b>		right
<b>10909</b>	beech	left
<b>10910</b>		right
<b>224885</b>	grey	left
<b>224886</b>		right

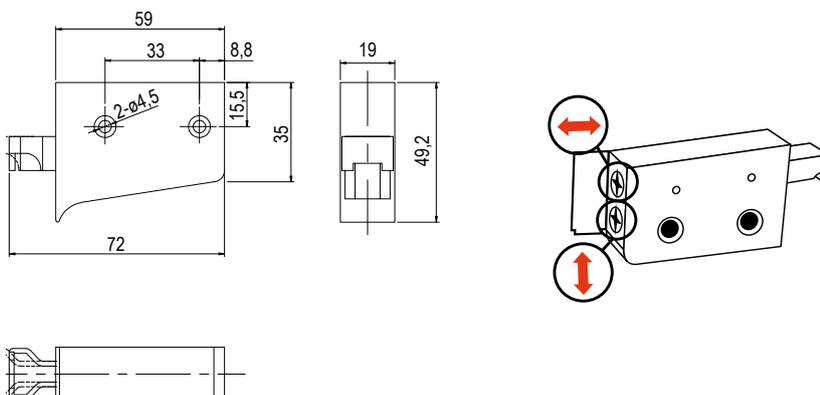
- load capacity 70 kg/pair
- height adjustment 10 mm, in-depth adjustment 20 mm
- ☑ for fastening rail, see p. 1.74



## Strong cabinet hanger

code	colour
<b>82621</b>	white

- load capacity 50 kg/pair
- height adjustment 9 mm, in-depth adjustment 12 mm



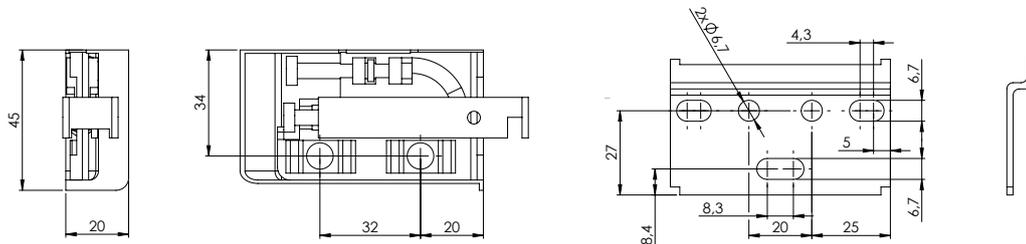
# adjustable cabinet hangers



## **N** Strong cabinet hanger

code	colour
<b>404459</b>	white

- load capacity 150 kg/pair
- height adjustment ± 8 mm, in-depth ± 10 mm



## Fastening rail

code	description
<b>82780</b>	Scilm, length 2 m
<b>82780R</b>	Strong, length 2 m

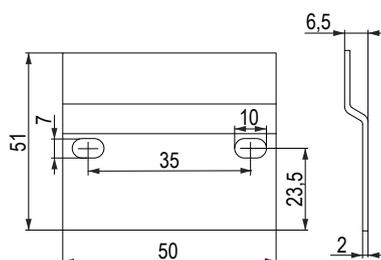
- surface treatment: galvanised



## Striker plate for cabinet hanger

code	description
<b>100236</b>	screw mounting

☑ for mounting screws and euro screws see p. 7.3-7.18 galvanised surface treatment



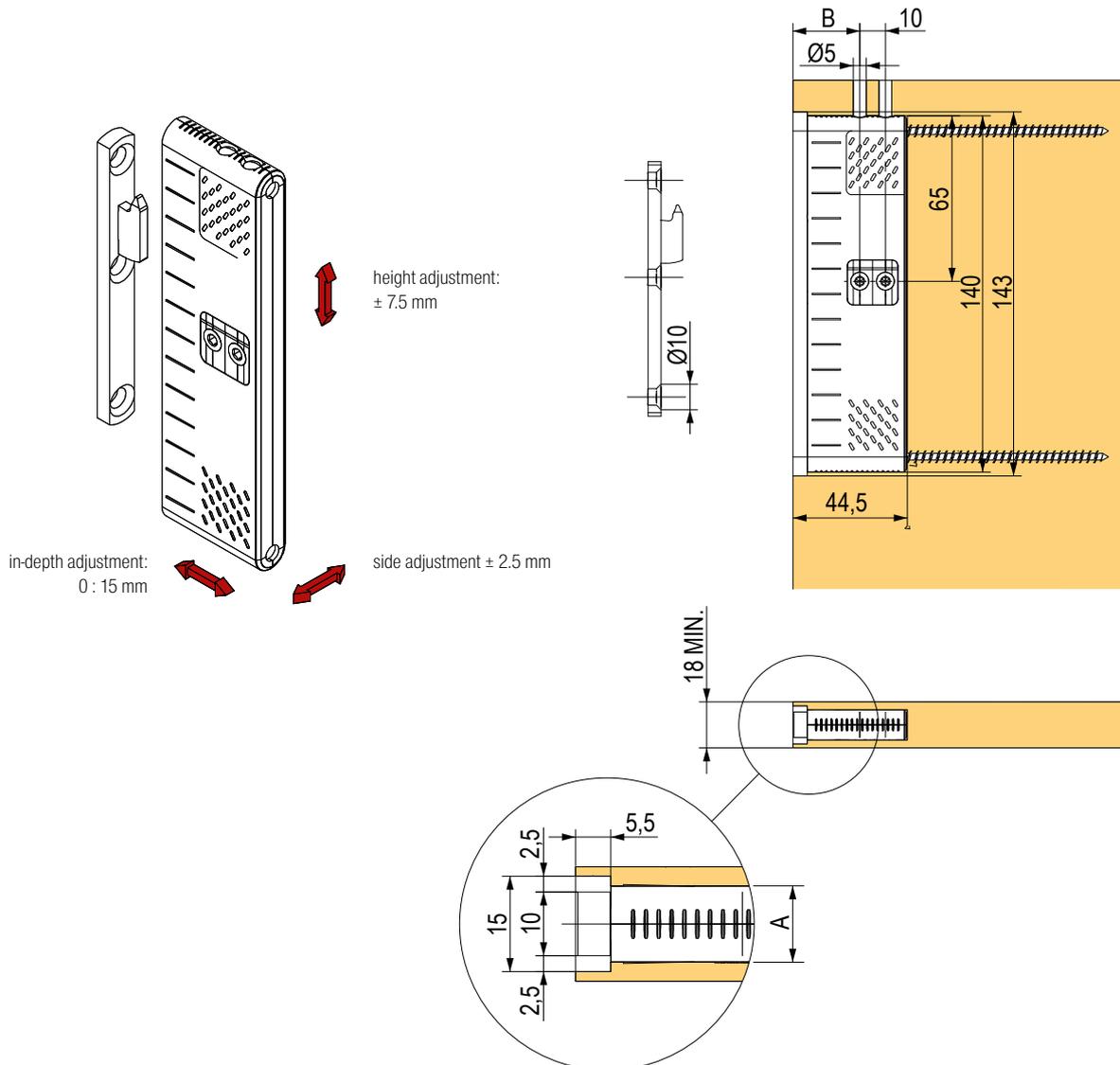


# cabinet hanger

## N Cabinet hanger concealed in the side panel

code	description
<b>347152</b>	adjustable fittings concealed for milling into side panel
<b>347153</b>	26 mm hook for suspension the ATC311 adjustable fitting

- adjustable fittings concealed in the side panel of the cabinet
- completely invisible inside the cabinet body
- mounting with screws to the side panel of the cabinet body. Min. wall thickness 18 mm
- possibility of horizontal and vertical adjustment.
- must be suspended on the counterpart (hook) 347153
- can be used both for suspension of top cabinets and for suspension of shelves with vertical side panels
- load capacity 80 kg per fitting (160 kg per pair)
- possible access to screws for adjustment from 3 sides (left side, right side and top side)



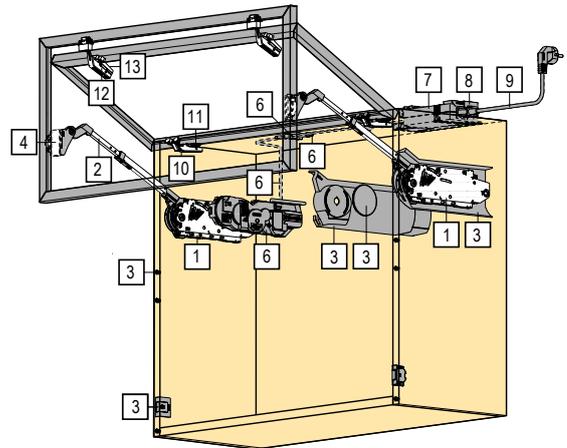
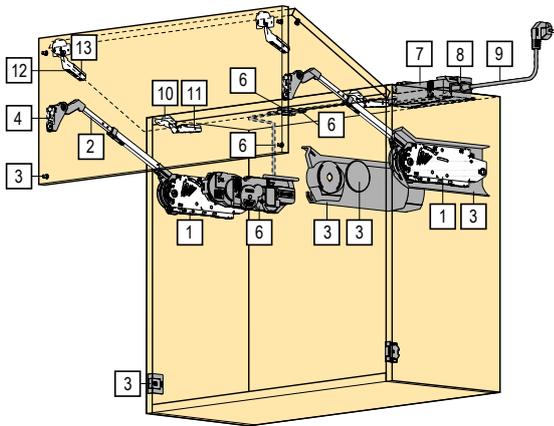




# AVENTOS HF, folding doors

## AVENTOS HF folding doors

- cabinet body height from 480 to 1,040 mm
- cabinet body width up to 1,800 mm
- only 3 lift mechanisms and 4 telescopic arms for all fields of use



AVENTOS HF mechanism				A	B
1	23751	20F2200.05	weak	✓	✓
	23752	20F2500.05	medium	✓	✓
	23753	20F2800.05	strong	✓	✓

Telescopes				A	B
2	13754	20F3200.01	cabinet body height 480–570 mm	✓	✓
	13755	20F3500.01	cabinet body height 560–710 mm	✓	✓
	13756	20F3800.01	cabinet body height 700–900 mm	✓	✓
	13757	20F3900.01	cabinet body height 760–1,040 mm	✓	✓

Cover caps for standard lift				A	B
3	23756	20F8000	for standard lift, grey	✓	
	23758	20F8000	for standard lift, white	✓	
	336552	20F8000	for standard lift, dark grey	✓	
Cover caps for SERVO-DRIVE				A	B
3	23754	21F8000	for lift with SERVO-DRIVE, grey		✓
	23755	21F8000	for lift with SERVO-DRIVE, white		✓
	336550	21F8000	for lift with SERVO-DRIVE, dark grey		✓

Hinges				A	B
10	12023	70T5550.TL	full overlay, Tip-On, 120°, screw fixation	✓	✓
	12028	70T558E.TL	full overlay, Tip-On, 120°, EXPANDO	✓	✓
	13764	72T550A.TL	full overlay for aluminium frames, 120°	✓	✓
Central hinges – safety				A	B
12	12024	78Z5500T	central safety hinge, screw	✓	✓
	12027	78Z553ET	central safety hinge, EXPANDO	✓	✓
	13765	78Z550AT	central safety hinge for aluminium frames	✓	✓

- A – for standard lift
- B – for SERVO-DRIVE

- ideal for higher top cabinets with split fronts
- cabinet body height 480–1,040 mm
- cabinet body width up to 1,800 mm
- minimum cabinet body depth 278 mm
- closes softly and quietly thanks to BLUMOTION
- requires only minimum force to operate
- variable stop
- simple mounting without tools

- adjustment of both fronts in 3 directions
- simple and smooth adjustment of the lift mechanisms
- central hinge including finger protection
- use the AVENTplan or DYNALOG programme to ensure ordering is as simple and accurate as possible
- AVENTplan – available for download at [www.demos-trade.com](http://www.demos-trade.com)
- DYNALOG – more at [www.blum.com](http://www.blum.com)



Plates for hinges				A	B
4	<b>12323</b>	175H5400	basic plate, horizontal, zinc, height 8.5 mm, screw	✓	✓
/11	<b>12326</b>	177H5400E	basic plate, horizontal, zinc, height 8.5 mm, EXPANDO	✓	✓
/13	<b>203387</b>	175H3100	basic plate, horizontal, steel, screw	✓	✓

Adapters for aluminium frame				A	B
4	<b>13766</b>	175H5B00	adapter for attachment of telescopic arms into an aluminium frame, left	✓	✓
/13	<b>13767</b>	175H5B00	adapter for attachment of telescopic arms into an aluminium frame, right	✓	✓
	<b>13768</b>	175H5A00	adapter for attachment of a central hinge into an aluminium frame	✓	✓

SERVO-DRIVE				A	B
6	<b>99130</b>	21FA000	SERVO-DRIVE set for AVENTOS HF, HL and HS, cable 1,500 mm, locking device, cover cap		✓

Transformer				A	B
7	<b>129576</b>	Z10NE030E	transformer 24 W		✓

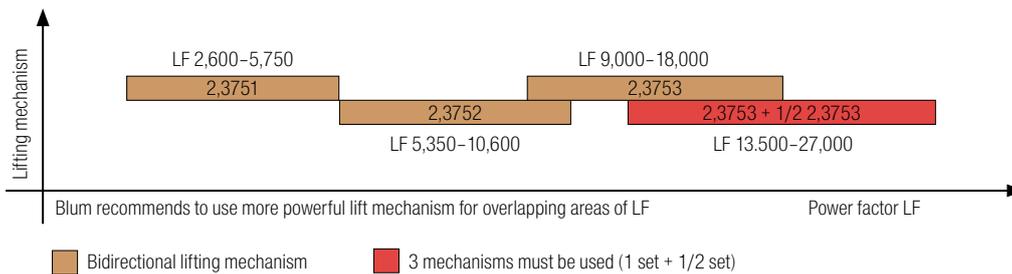
Transformer holder				A	B
8	<b>131344</b>	Z10NG120	transformer holder		✓

Supply cable				A	B
9	<b>99108</b>	Z10M200E	power supply cable 2 m		✓

Calculation for choosing an optimal performance of the lifting mechanism:

Power factor = cabinet body height (mm) × combined weight of both fronts and handle (kg)

- can also be used for asymmetrical fronts



- ⓘ Testing the backstop is recommended for each particular lifting mechanism!

Accessories: opening angle stops			A	B
<b>13769</b>	20F7051	opening angle stop, 103°		✓
<b>13758</b>	20F7011	opening angle stop, 83°		✓

Accessories			A	B
<b>123015</b>	21P5020	separate switch, grey, as spare part		✓
<b>123016</b>	21P5020	separate switch, white, as spare part		✓

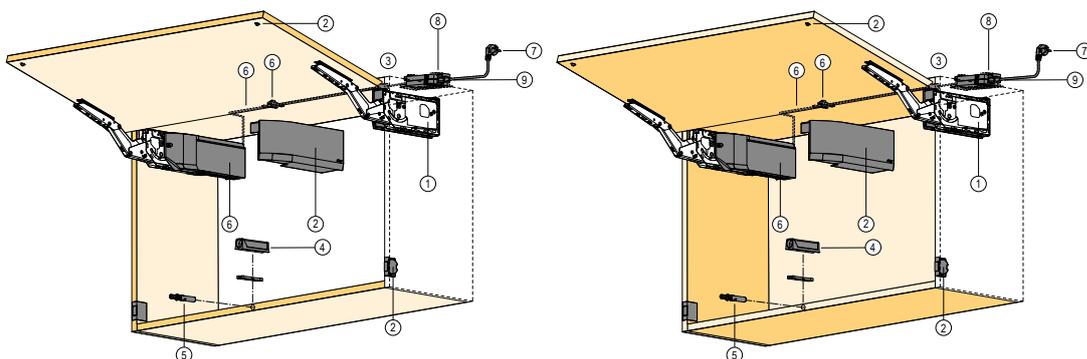
🔗 for more accessories for Servo-Drive (transformer, transformer holder, supply cable) see p. 2.59



# AVENTOS HK Top

## AVENTOS HK Top stay lift

- cabinet body height up to 600 mm
- cabinet body width up to 1,800 mm
- easy mounting in the cabinet – either with installation to the top panel and front edge or with 2 euro screws and 2 pegs
- precise lift mechanism force adjustment from the front
- precise angle adjustment thanks to integration in the lever arm of lift mechanism
- an integrated safety mechanism prevents the lever arm from opening unintentionally
- minimalist dimensions of the lift mechanism
- small uniform forces when opening



Power factor LF = cabinet body height KH [mm] × combined weight of both fronts and two times handle [kg]

medium 930-2,800		the strongest 3,200-9,000		lift mechanism hodnota LF
weak 480-1,610	strong 1,730-5,200			

Power factor LF →

### AVENTOS HK mechanism – standard / SERVO-DRIVE

	set for screw fixing with precise positioning		set with pre-mounted euro screws		description	A	B
1	347810	22K2300	378189	22K2310	weak	✓	✓
	347811	22K2500	378190	22K2510	medium	✓	✓
	347812	22K2700	378191	22K2710	strong	✓	✓
	347813	22K2900	378193	22K2910	the strongest	✓	✓

### Cover caps for standard lift / TIP-ON

	code	Blum code	description	A	B
2	347834	22K8000	white	✓	
	347833	22K8000	grey	✓	
	347835	22K8000	dark grey	✓	

### AVENTOS HK top TIP-ON mechanism

	set for screw fixing with precise positioning		set with pre-mounted euro screws		description	A	B
1	347814	22K2300T	378200	22K2310T	weak		
	347826	22K2500T	378202	22K2510T	medium		
	347827	22K2700T	378203	22K2710T	strong		
	347828	22K2900T	378204	22K2910T	the strongest		

### Cover caps for SERVO-DRIVE

	code	Blum code	description	A	B
2	347837	23K8000	white		✓
	347836	23K8000	grey		✓
	347838	23K8000	dark grey		✓

### Front fittings

	code	Blum code	description	A	B
3	13781	20S4200	for AVENTOS HK top, screw	✓	✓
	23789	20S42E1	for AVENTOS HK top, EXPANDO	✓	✓
	13782	20S4200A	aluminium frames for AVENTOS HK top, for milling-in	✓	✓
	132949	20S4G00A	aluminium frames for AVENTOS HK top, for screw fixing	✓	
	347993	20S42T1	front fittings EXPANDO T	✓	✓


**TIP-ON Push to open pins**

	code	Blum code	description
4	<b>250826</b>	956.1004	50 mm, white
	<b>250827</b>	956.1004	50 mm, grey
	<b>250828</b>	956.1004	50 mm, black
	<b>250831</b>	956A1004	76 mm, white
	<b>250833</b>	956A1004	76 mm, grey
	<b>250834</b>	956A1004	76 mm, black

**TIP-ON inline adapter**

	code	Blum code	description
5	<b>250838</b>	956.1201	50 mm, white
	<b>250839</b>	956.1201	50 mm, grey
	<b>250840</b>	956.1201	50 mm, black
	<b>250841</b>	956A1201	76 mm, white
	<b>250842</b>	956A1201	76 mm, grey
	<b>250843</b>	956A1201	76 mm, black

**SERVO-DRIVE**

	code	Blum code	description	A	B
6	<b>347839</b>	23KA000	SERVO-DRIVE set for AVENTOS HK top, cable 1,500 mm, coupling, cable end piece		✓

**Supply cable**

	code	Blum code	description	A	B
7	<b>99108</b>	Z10M200E	power supply cable, 2 m		✓

**Transformer**

	code	Blum code	description	A	B
8	<b>129576</b>	Z10NE030E	transformer 24 W		✓

**Transformer holder**

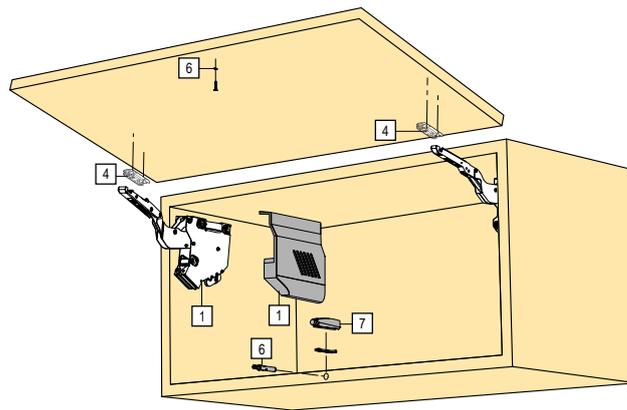
	code	Blum code	description	A	B
9	<b>131344</b>	Z10NG120	to the back		✓

- A - for standard lift
- B - for SERVO-DRIVE



## AVENTOS HK-S for small lifts

- max. cabinet body height up to 600 mm
- cabinet body width depends on the performance index
- 3 types of lift mechanisms



### AVENTOS HK-S <sup>1)</sup> mechanism

1	<b>231752</b>	20K2B00	weak, white cover cap
	<b>231749</b>	20K2B00	weak, grey cover cap
	<b>346195</b>	20K2B00	weak, dark grey cover cap
	<b>231753</b>	20K2C00	medium, white cover cap
	<b>231750</b>	20K2C00	medium, grey cover cap
	<b>346199</b>	20K2C00	medium, dark grey cover cap
	<b>231754</b>	20K2E00.02	strong, white cover cap
	<b>231751</b>	20K2E00	strong, grey cover cap
	<b>346212</b>	20K2E00	strong, dark grey cover cap

<sup>1)</sup> the complete set includes: 2 × symmetrical lift mechanism, 2 × left side/right side cover cap of the arm, 10 × chipboard screw 4 × 35 mm

### AVENTOS HK-S, TIP-ON <sup>2)</sup> mechanism

1	<b>231760</b>	20K2B00T	weak, white cover cap
	<b>231757</b>	20K2B00T	weak, grey cover cap
	<b>346216</b>	20K2B00T	weak, dark grey cover cap
	<b>231761</b>	20K2C00T	medium, white cover cap
	<b>231758</b>	20K2C00T	medium, grey cover cap
	<b>346226</b>	20K2C00T	medium, dark grey cover cap
	<b>231762</b>	20K2E00T	strong, white cover cap
	<b>231759</b>	20K2E00T	strong, grey cover cap
	<b>346228</b>	20K2E00T	strong, dark grey cover cap

<sup>2)</sup> the complete set includes: 2 × symmetrical lift mechanism, 2 × left side/right side cover cap of the arm, 10 × chipboard screw 4 × 35 mm, 1 × TIP-ON 50 mm, 1 × inline adapter for TIP-ON

### Front fittings

4	<b>203387</b>	175H3100	horizontal, 8,5 mm steel, screw <sup>3)</sup>
	<b>211476</b>	177H3100E	horizontal, 8,5 mm steel, EXPANDO <sup>3)</sup>
	<b>P13907</b>	20K4A01A	front fastener, aluminium, left
	<b>P13908</b>	20K4A01A	front fastener, aluminium, right
	<b>277796</b>	175H3G00A	front fittings for aluminium frames for screw-on <sup>4)</sup>

<sup>3)</sup> 2 pcs must be ordered

<sup>4)</sup> cannot be used for TIP-ON

- ideal for small heights of top cabinets
- cabinet body height: inner min. 150 mm, outer max. 400 mm
- minimum cabinet body depth 240 mm
- **the weakest version has springs and the soft closing mechanism only on one lift**
- closes softly and quietly thanks to BLUMOTION
- requires only minimum force to operate
- balanced ease of motion with a smooth stop
- simple mounting without tools
- adjustment of front in 3 directions
- simple and smooth adjustment of the lift mechanisms
- it does not need any hinges
- use the AVENTplan or DYNALOG programme to ensure ordering is as simple and accurate as possible
- AVENTplan – available for download at [www.demos-trade.com](http://www.demos-trade.com)
- DYNALOG – more at [www.blum.com](http://www.blum.com)


**TIP-ON Push to open pins**

6	<b>250826</b>	956.1004	50 mm, white
	<b>250827</b>	956.1004	50 mm, grey
	<b>250828</b>	956.1004	50 mm, black
	<b>250831</b>	956A1004	76 mm, white
	<b>250833</b>	956A1004	76 mm, grey
	<b>250834</b>	956A1004	76 mm, black

**TIP-ON inline adapter**

6	<b>250838</b>	956.1201	50 mm, white
	<b>250839</b>	956.1201	50 mm, grey
	<b>250840</b>	956.1201	50 mm, black
	<b>250841</b>	956A1201	76 mm, white
	<b>250842</b>	956A1201	76 mm, grey
	<b>250843</b>	956A1201	76 mm, black

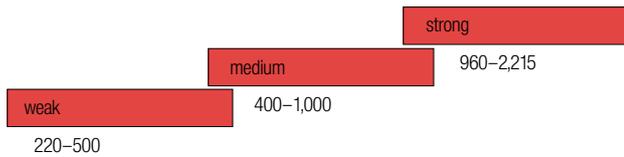
**Opening angle stop**

P	<b>13905</b>	20K7A41	100°
	<b>13906</b>	20K7A11	75°

**Combination options**

type of lift mechanism	performance factor
2 × 20K2A01	not possible
1 × 20K2A01 + 1 × 20K2C01	220–500
2 × 20K2C01	400–1,000
2 × 20K2E01	960–2,215

Power factor = cabinet body height (mm) × combined weight of both fronts and two times handle (kg)


**AVENTOS HK-S industry**

<b>P13900</b>	20K2A01.XX	unsprung mechanism
<b>P13901</b>	20K2C01.XX	medium mechanism
<b>P13902</b>	20K2E01.XX	strong mechanism
<b>211370</b>	20K2C01T	TIP-ON medium mechanism
<b>211371</b>	20K2E01T	TIP-ON strong mechanism
<b>392600</b>	20K8A21.21	white cover cap, left
<b>392601</b>	20K8A21.21	white cover cap, right
<b>392597</b>	20K8A21.21	grey cover cap, left
<b>392598</b>	20K8A21.21	grey cover cap, right
<b>392602</b>	20K8A21.21	dark grey cover cap, left
<b>392603</b>	20K8A21.21	dark grey cover cap, right
<b>P13999</b>		screw 4 × 35 mm

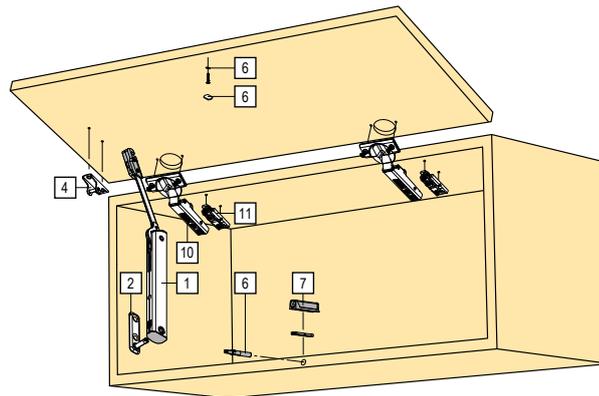


# AVENTOS HK-XS

## AVENTOS HK-XS

small fittings for small high cabinets

- cabinet body height from 240 to 600 mm
- minimum internal depth 125 mm
- suitable for cornices and sideboards



### AVENTOS HK-XS mechanism

1	<b>247121</b>	20K1101	weak
	<b>247122</b>	20K1301	medium
	<b>247123</b>	20K1501	strong

### AVENTOS HK-XS mechanism for TIP-ON

1	<b>247124</b>	20K1101T	weak
	<b>247125</b>	20K1301T	medium
	<b>247126</b>	20K1501T	strong

### Attachment of the lift to the cabinet body

2	<b>247127</b>	20K5101	side pin for the cabinet body, screw
	<b>247128</b>	20K51E1	side pin for the cabinet body, EXPANDO

### Front fittings

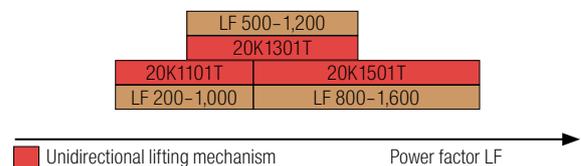
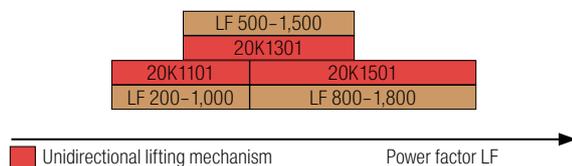
4	<b>247129</b>	20K4101	screw
	<b>247130</b>	20K41E1	EXPANDO
	<b>247131</b>	20K4101A	aluminium frame

P	<b>347999</b>	70T4532T	dowel EXPANDO T
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- ideal for high cabinets and top cabinets
- cabinet body height 240–600 mm
- minimum internal depth 125 mm
- symmetrical lift mechanism can be used on one or both sides
- lift fittings, designed for small lifts in high cabinets and top cabinets
- in combination with CLIP top BLUMOTION hinges, the lifts close softly and silently
- the variable stop ensures that the lift remains in the desired position and you can reach it comfortably whenever you want
- smaller cabinet fronts need only one lift; the larger can be supplemented by two
- low installation depth (125 mm) is its biggest advantage, can be used for narrow lifts above extractor or in bathrooms
- fast and easy installation is an indisputable advantage
- the correct strength of the lift is easy to set on the front side of the lift
- TIP-ON version is combined with TIP-ON unsprung hinges and TIP-ON Push to open pins (p. 1.25)
- for this version, one touch on the front is all that is needed to open the lift system wide enough upwards
- you can easily adjust the gap of the closed front by turning the ejector

Standard

TIP-ON




**Hinges**

10	12047	71B3550	with integrated soft closing, screw, 110°
	226668	70T3550.TL	full overlay, unsprung, screw, 110° <sup>1)</sup>

**Plate**

11	203387	175H3100	horizontal plate, screw, 8.5 mm steel
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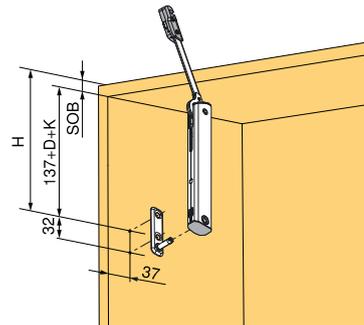
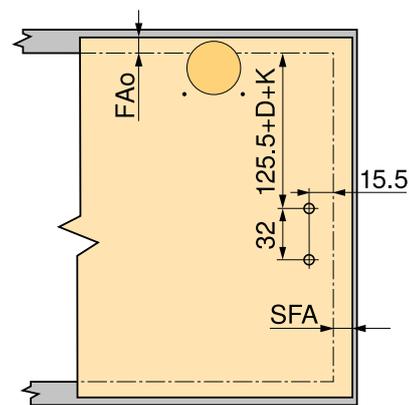
**TIP-ON Push to open pins**

6	250826	956.1004	50 mm, white
	250827	956.1004	50 mm, grey
	250828	956.1004	50 mm, black
	250831	956A1004	76 mm, white
	250833	956A1004	76 mm, grey
	250834	956A1004	76 mm, black

**TIP-ON adapters**

6	250838	956.1201	50 mm, white
	250839	956.1201	50 mm, grey
	250840	956.1201	50 mm, black
	250841	956A1201	76 mm, white
	250842	956A1201	76 mm, grey
	250843	956A1201	76 mm, black

wooden fronts and wide aluminium frames


**Position on the cabinet body for the lift mechanisms**

- $H = 137 + D + K + SOB$
- D - raising of mounting plates
- K - cranking of hinge arm  
full overlay hinge = 0 mm  
half overlay hinge = 9.5 mm  
inset hinge = 18 mm
- SOB - cabinet body top thickness



Do you know that with the AVENTplan form, you can easily and quickly order all the fittings needed for AVENTOS lifts?

 You can find them at [www.demos-trade.com](http://www.demos-trade.com)

**Symmetrical lift mechanism standard**

- Power factor
- 200-1,000 weak
- 500-1,500 medium
- 800-1,800 strong
- 105° opening angle


**Symmetrical lift mechanism TIP-ON**

- Power factor
- 180-800 weak
- 500-1,200 medium
- 800-1,600 strong
- 105° opening angle

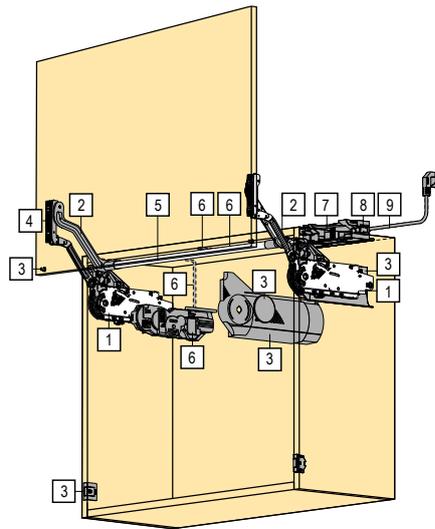

<sup>1)</sup> Power factor LF = body height (mm) × body weight, including doubled handle weight (kg).



# AVENTOS HL, parallel with cabinet body

## AVENTOS HL for lift ups

- cabinet body height from 300 to 580 mm
- cabinet body width up to 1,800 mm
- 5 lift mechanisms and 4 lever arms for all fields of use



AVENTOS HL mechanism				A	B
1	<b>23790</b>	20L2100.05	the weakest	✓	✓
	<b>23791</b>	20L2300.05	weak	✓	✓
	<b>23792</b>	20L2500.05	medium	✓	✓
	<b>23793</b>	20L2700.05	strong	✓	✓
	<b>23794</b>	20L2900.05	the strongest	✓	✓

- A - for standard lift
- B - for SERVO-DRIVE
- Blum recommends to use more powerful lift mechanism for overlapping areas of **LF**
- ☑ for more accessories for Servo-Drive (transformer, transformer holder, supply cable) see p. 2.59

Set of arms				A	B
2	<b>197608</b>	20L3200.06	for cabinet body height 300–349 mm	✓	
	<b>197609</b>	20L3500.06	for cabinet body height 350–399 mm	✓	
	<b>197610</b>	20L3800.06	for cabinet body height 400–550 mm	✓	
	<b>197611</b>	20L3900.06	for cabinet body height 450–580 mm	✓	

- ideal for small-area single-piece fronts
- cabinet body height 300–580 mm
- cabinet body width up to 1,800 mm
- minimum cabinet body depth 278 mm
- closes softly and quietly thanks to BLUMOTION
- requires only minimum force to operate
- balanced ease of motion with a smooth stop
- simple mounting without tools
- adjustment of front in 3 directions
- simple and smooth adjustment of the lift mechanisms
- use the AVENTplan or DYNALOG programme to ensure ordering is as simple and accurate as possible
- AVENTplan - available for download at [www.demos-trade.com](http://www.demos-trade.com)
- DYNALOG - more at [www.blum.com](http://www.blum.com)

Set of arms for SERVO-DRIVE				A	B
2	<b>197612</b>	21L3200.01	for cabinet body height 300–349 mm		✓
	<b>197613</b>	21L3500.01	for cabinet body height 350–399 mm		✓
	<b>197614</b>	21L3800.01	for cabinet body height 400–550 mm		✓
	<b>197615</b>	21L3900.01	for cabinet body height 450–580 mm		✓

Cover caps for standard lift				A	B
3	<b>23803</b>	20L8000.01	white	✓	
	<b>23802</b>	20L8000.01	grey	✓	
	<b>336561</b>	20L8000	dark grey	✓	

Cover caps for lift with SERVO-DRIVE				A	B
3	<b>23801</b>	21L8000	white		✓
	<b>23800</b>	21L8000	grey		✓
	<b>336560</b>	21L8000	dark grey		✓

# AVENTOS HL, parallel with cabinet body



Front fittings				A	B
4	13781	20S4200	for AVENTOS HK, HL and HS, screw	✓	✓
	23789	20S42E1	for AVENTOS HK, HL and HS, EXPANDO	✓	✓
	13782	20S4200A	for aluminium frames for AVENTOS HK, HL and HS, for milling-in	✓	✓
	132949	20S4G00A	for aluminium frames for AVENTOS HK, HL and HS, for screwing-on	✓	
	347993	20S42T1	front fittings EXPANDO T	✓	✓

Cross stabilisation				A	B
5	13799	20Q1061UA	cross stabilisation rod, 1,061 mm, for cutting to size	✓	✓
	197616	20Q153ZA	extension piece	✓	✓

SERVO-DRIVE				A	B
6	99130	21FA 000	SERVO-DRIVE set for AVENTOS HF, HL and HS, cable 1,500 mm, coupling, cover cap		✓

Opening angle stop				A	B
P	188739	20L7051	124°	✓	✓

Transformer				A	B
7	129576	Z10NE030E	transformer 24 W		✓

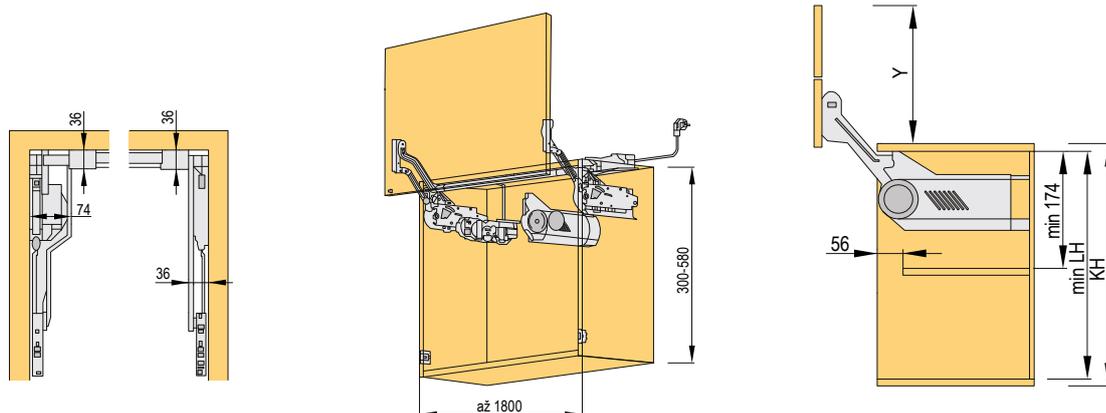
Transformer holder				A	B
8	131344	Z10NG120	to the back		✓

Supply cable				A	B
9	99108	Z10M200E	power supply cable 2 m		✓

## Table for determining proper type of lift and arms

cabinet body height (mm)	arm				flipping mechanism				
	A		B		23790	23791	23792	23793	23794
300–350	197608	20L3200.06	197612	21L3200.01	1.25–4.25	3.50–7.25	6.50–12.00	11.00–20.00	×
350–400	197609	20L3500.06	197613	21L3500.01	1.25–2.50	1.75–5.00	4.25–9.00	8.00–14.75	13.50–20.00
400–550	197610	20L3800.06	197614	21L3800.01	×	1.75–3.50	2.75–6.75	5.75–11.75	10.50–20.00
450–580	197611	20L3900.06	197615	21L3900.01	×	×	2.00–5.25	4.25–9.25	8.25–16.50

- for the assembly manual go on the Démos24Plus portal ([www.demos-trade.com](http://www.demos-trade.com)) or check the Blum catalogue (it is also always packed with the goods)

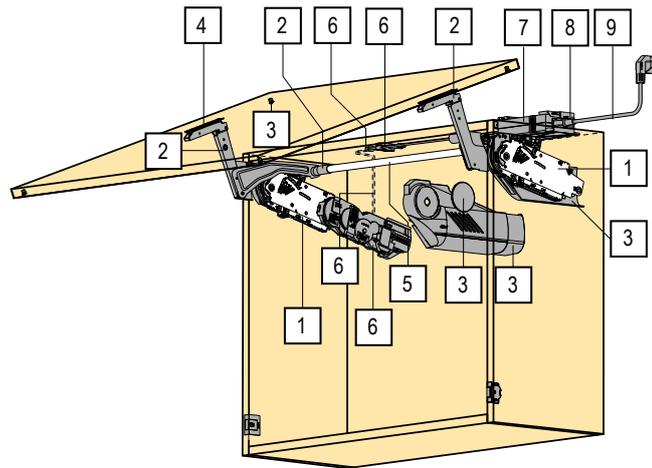




# AVENTOS HS, up and over the cabinet body

AVENTOS HS  
for up and over  
lifts

- cabinet body height from 350 to 800 mm
- cabinet body width up to 1,800 mm
- 9 different lift mechanisms and one set of arms



### AVENTOS HS mechanism

				A	B
1	23770	20S2A00.05	type "A"	✓	✓
	23771	20S2B00.05	type "B"	✓	✓
	23772	20S2C00.05	type "C"	✓	✓
	23773	20S2D00.05	type "D"	✓	✓
	23774	20S2E00.05	type "E"	✓	✓
	23775	20S2F00.05	type "F"	✓	✓
	23776	20S2G00.05	type "G"	✓	✓
	23777	20S2H00.05	type "H"	✓	✓
	23778	20S2I00.05	type "I"	✓	✓

- A - for standard lift
- B - for SERVO-DRIVE
- Blum recommends to use more powerful lift mechanism for overlapping areas of LF
- for more accessories for Servo-Drive (transformer, transformer holder, supply cable) see p. 2.59

### Set of arms

				A	B
2	197604	20S3500.06	standard	✓	

### Set of arms for SERVO-DRIVE

2	197605	21S3500.01	for SERVO-DRIVE		✓
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### Cover caps for standard lift

				A	B
3	23787	20S8000	white	✓	
	23784	20S8000	grey	✓	
	336556	20S8000	dark grey	✓	

### Cover caps for lift with SERVO-DRIVE

3	23782	21S8000	white		✓
	23781	21S8000	grey		✓
	336554	21S8000	dark grey		✓

- ideal for big-area single-piece fronts
- cabinet body height 350-800 mm
- cabinet body width up to 1,800 mm
- minimum cabinet body depth 276 mm
- closes softly and quietly thanks to BLUMOTION
- requires only minimum force to operate
- balanced ease of motion with a smooth stop
- simple mounting without tools
- adjustment of front in 3 directions
- simple and smooth adjustment of the lift mechanisms
- use the AVENTplan or DYNALOG programme to ensure ordering is as simple and accurate as possible
- AVENTplan - available for download at [www.demos-trade.com](http://www.demos-trade.com)
- DYNALOG - more at [www.blum.com](http://www.blum.com)

# AVENTOS HS, up and over the cabinet body



Front fittings				A	B
4	13781	20S4200	for AVENTOS HK, HL and HS, screw	✓	✓
	23789	20S42E1	for AVENTOS HK, HL and HS, EXPANDO	✓	✓
	13782	20S4200A	for aluminium frames for AVENTOS HK, HL and HS, for milling-in	✓	✓
	132949	20S4G00A	for aluminium frames for AVENTOS HK, HL and HS, for screwing-on	✓	
	347993	20S42T1	front fittings EXPANDO T	✓	✓

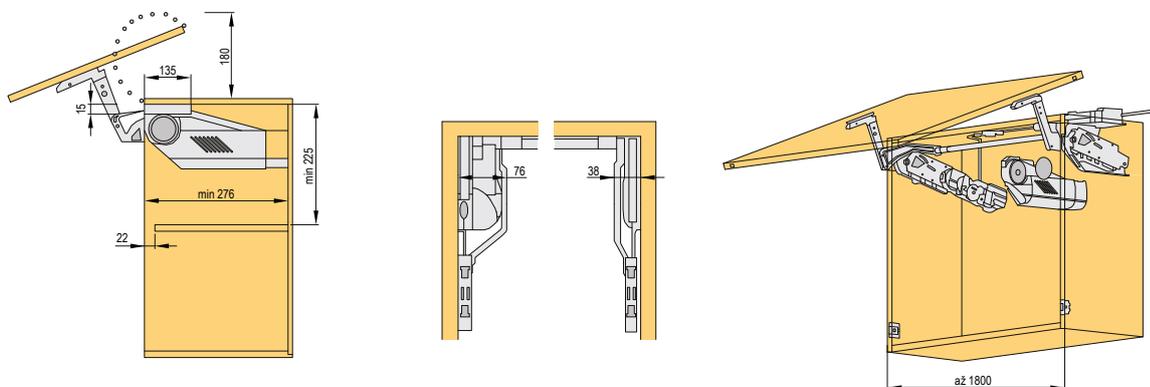
Cross stabilisation				A	B
5	197606	20Q1061UN	cross stabilisation rod, 1,061 mm, for cutting to size	✓	✓
	197607	20Q153ZN	extension piece	✓	✓

SERVO-DRIVE				A	B
6	99130	21FA 000	SERVO-DRIVE set for AVENTOS HF, HL and HS, cable 1,500 mm, coupling, cover cap		✓

Transformer				A	B
7	129576	Z10NE030E	transformer 24 W		✓

Transformer holder				A	B
8	131344	Z10NG120	to the back		✓

Supply cable				A	B
9	99108	Z10M200E	power supply cable 2 m		✓



- For the assembly manual go on the D emos24Plus portal ([www.demos-trade.com](http://www.demos-trade.com)) or check the Blum catalogue (it is also always packed with the goods).



# AVENTOS HS, up and over the cabinet body

## HS tables

KH (mm) <sup>1)</sup>	23776	23777	23778
	front weight (kg)		
800	4.00-7.00	6.00-12.25	10.50-20.0
795	4.00-7.00	6.00-12.25	10.50-20.0
790	4.00-7.00	6.00-12.25	10.75-20.0
785	4.00-7.00	6.25-12.50	10.75-20.0
780	4.00-7.00	6.25-12.50	10.75-20.2
775	3.75-7.00	6.25-12.50	11.00-20.2
770	3.75-7.00	6.25-12.50	11.00-20.2
765	3.75-7.25	6.50-12.50	11.00-20.2
760	3.75-7.25	6.50-12.75	11.25-20.2
755	3.75-7.25	6.50-12.75	11.25-20.5
750	3.50-7.25	6.50-12.75	11.50-20.5
745	3.50-7.25	6.50-12.75	11.50-20.5
740	3.50-7.25	6.50-12.75	11.75-20.7
735	3.50-7.50	6.50-13.00	11.75-20.7
730	3.50-7.50	6.75-13.00	11.75-21.0
725	3.50-7.50	6.75-13.00	12.00-21.0
720	3.50-7.50	6.75-13.00	12.00-21.2
715	3.50-7.50	6.75-13.00	12.00-21.2
710	3.50-7.75	6.75-13.25	12.25-21.2
705	3.50-7.75	6.75-13.25	12.25-21.5
700	3.50-7.75	6.75-13.25	12.50-21.5
695	3.50-7.75	6.75-13.25	12.50-21.5
690	3.50-7.75	6.75-13.25	12.75-21.5
685	3.50-8.00	7.00-13.25	12.75-21.5
680	3.50-8.00	7.00-13.50	13.00-21.5
676	3.50-8.00	7.00-13.50	13.00-21.5

<sup>1)</sup> front height (mm)

KH (mm) <sup>1)</sup>	23773	23774	23775
	front weight (kg)		
675	3.00-5.25	5.00-11.00	09.75-19.0
670	3.00-5.25	5.00-11.00	09.75-19.0
665	3.00-5.25	5.00-11.00	09.75-19.0
660	3.00-5.50	5.25-11.25	10.00-19.0
655	3.00-5.50	5.25-11.25	10.00-19.0
650	3.00-5.50	5.25-11.25	10.00-19.0
645	3.00-5.50	5.25-11.25	10.00-18.7
640	3.00-5.50	5.25-11.25	10.00-18.7
635	3.00-5.50	5.25-11.50	10.25-18.7
630	3.00-5.75	5.50-11.50	10.25-18.7
625	3.00-5.75	5.50-11.50	10.25-18.7
620	3.00-5.75	5.50-11.50	10.25-18.7
615	3.00-5.75	5.50-11.50	10.25-18.7
610	3.00-6.00	5.50-11.75	10.50-18.5
605	3.00-6.00	5.50-11.75	10.50-18.5
600	3.00-6.00	5.50-11.75	10.50-18.5
595	3.00-6.00	5.50-11.75	10.50-18.5
590	3.00-6.00	5.50-12.00	10.75-18.2
585	3.00-6.25	5.75-12.00	10.75-18.2
580	3.00-6.25	5.75-12.00	11.00-18.0
575	3.00-6.25	5.75-12.00	11.00-18.0
570	3.00-6.25	5.75-12.25	11.25-17.7
565	3.00-6.25	5.75-12.25	11.25-17.7
560	3.00-6.50	6.00-12.25	11.25-17.5
555	3.00-6.50	6.00-12.50	11.50-17.5
550	3.00-6.50	6.00-12.50	11.50-17.2
545	3.00-6.50	6.00-12.50	11.50-17.2
540	3.00-6.50	6.00-12.75	11.75-17.0
535	3.00-6.75	6.25-12.75	11.75-16.7
530	3.00-6.75	6.25-12.75	11.75-16.7
526	3.00-6.75	6.25-13.00	12.00-16.5

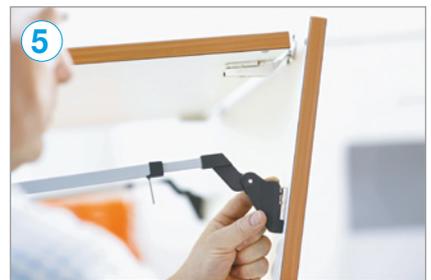
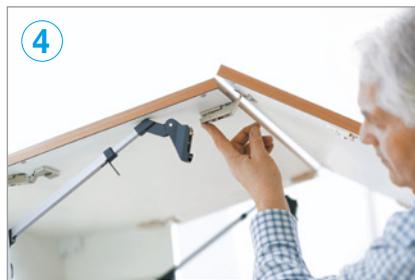
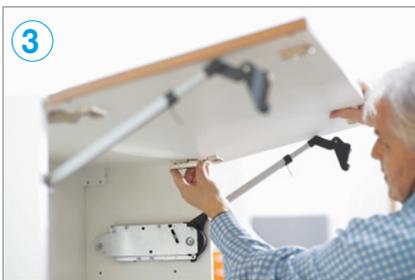
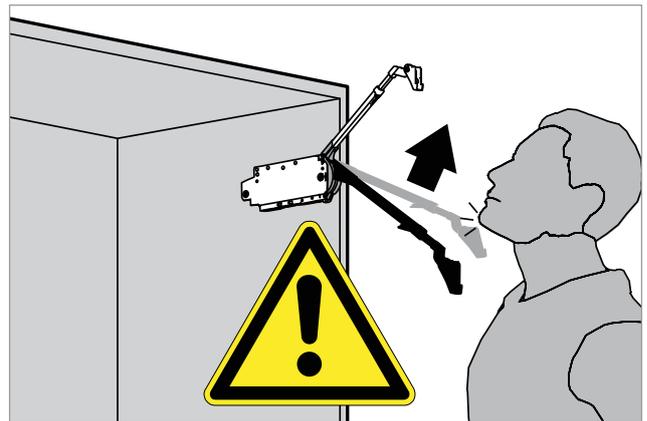
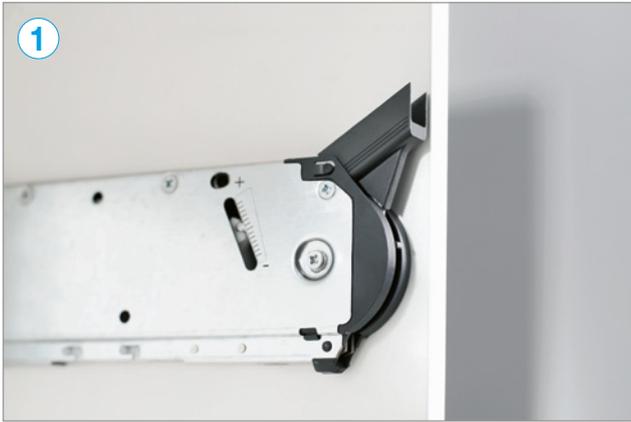
<sup>1)</sup> front height (mm)

KH (mm) <sup>1)</sup>	23770	23771	23772
	front weight (kg)		
525	2.50-4.00	3.25-7.50	7.25-15.00
520	2.50-4.00	3.50-7.50	7.25-15.00
515	2.50-4.00	3.50-7.50	7.25-14.75
510	2.50-4.00	3.50-7.75	7.50-14.75
505	2.50-4.00	3.50-7.75	7.50-14.75
500	2.50-4.25	3.50-7.75	7.50-14.75
495	2.50-4.25	3.75-7.75	7.50-14.50
490	2.50-4.25	3.75-8.00	7.75-14.50
485	2.50-4.25	3.75-8.00	7.75-14.25
480	2.50-4.25	3.75-8.00	7.75-14.25
475	2.50-4.25	3.75-8.00	7.75-14.00
470	2.50-4.25	4.00-8.25	8.00-14.00
465	2.25-4.25	4.00-8.25	8.00-13.75
460	2.25-4.25	4.00-8.25	8.00-13.75
455	2.25-4.25	4.00-8.50	8.25-13.50
450	2.25-4.25	4.00-8.50	8.25-13.50
445	2.25-4.50	4.25-8.50	8.25-13.25
440	2.25-4.50	4.25-8.50	8.25-13.00
435	2.25-4.50	4.25-8.75	8.50-13.00
430	2.25-4.50	4.25-8.75	8.50-12.75
425	2.25-4.50	4.25-8.75	8.50-12.75
420	2.25-4.50	4.25-8.75	8.50-12.50
415	2.25-4.50	4.25-8.75	8.50-12.50
410	2.25-4.50	4.25-9.00	8.75-12.25
405	2.25-4.50	4.25-9.00	8.75-12.00
400	2.00-4.75	4.25-9.00	8.75-12.00
395	2.00-4.75	4.50-9.00	8.75-11.75
390	2.00-4.75	4.50-9.00	8.75-11.50
385	2.00-4.75	4.50-9.25	9.00-11.50
380	2.00-4.75	4.50-9.25	9.00-11.25
375	2.00-4.75	4.50-9.25	9.00-11.25
370	2.00-4.75	4.50-9.25	9.00-11.00
365	2.00-4.75	4.50-9.25	9.00-11.00
360	2.00-4.75	4.50-9.50	9.25-10.75
355	2.00-4.75	4.50-9.50	9.25-10.50
350	2.00-5.00	4.50-9.50	9.25-10.50

<sup>1)</sup> front height (mm)



### Assembly procedure





# Overview of other lifting mechanisms



## Kesseböhmer lift fittings

FREElight top lift	p.	1.92
Maxi top lift	p.	1.93
Maxi Up lift	p.	1.94
Duo, Duo Forte top and bottom lifts	p.	1.95–1.96



## Lift fittings Italiana Ferramenta

K12 top and bottom lifts	p.	1.97–1.99
Kraby top and bottom lifts	p.	1.100–1.103
Accessories for K12 and KRABY	p.	1.104
Kiaro bottom lift	p.	1.105–1.106
Link bottom lift	p.	1.107–1.108



## Strong and other lift fittings

Piston for monitor/TV extension	p.	1.109
Automatic and positioning top lift 245 mm	p.	1.110–1.111
Top lift 180 mm	p.	1.112
Fittings for Tatami lifts 230 mm	p.	1.112
Other lift fittings	p.	1.113–1.114



## Other lift fittings

Spring shears	p.	1.113
Drop-downs	p.	1.113–1.114
Fittings for lifting shoe racks	p.	1.114





# Lift fittings FREElight

- can be opened using a K-push handleless opening system
- adjustable lift force (both for positioning and automatic opening)
- long-term functionality
- economically interesting solution
- double-sided use
- elegant matt finish



## FREElight top lift

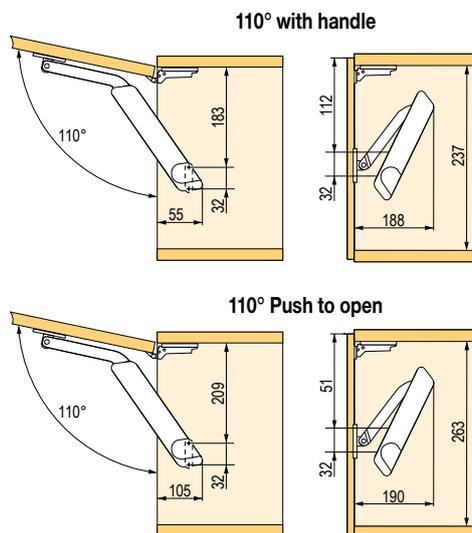
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<b>356415</b>	type A	grey
<b>356416</b>	type B	
<b>356417</b>	type C	
<b>356418</b>	type D	

- 75, 90 and 110° opening angle
- including cabinet body fasteners, doors, cover caps, and key for strength adjustment
- ☑ for the opening option with the handle, we recommend using hinges with soft closing, e.g. see p. 1.39-1.49
- ☑ for handleless opening, we recommend the K-push system, p. 1.53-1.55 (extra strong with magnet)



door height (mm)	110° with handle		110° Push to open	
	weight (kg)	type of lift	weight (kg)	type of lift
275	1.9-2.8	A	-	-
	2.6-4.3	B	-	-
	4.2-7.1	D	-	-
300	1.1-2.4	A	1.5-2.1	B
	2.4-4.1	B	2.1-3	C
	4-7	D	2.7-4.1	D
350	1.1-2.1	A	1.5-2.1	B
	2.1-3.7	B	1.9-2.7	C
	3.6-6.4	D	2.6-3.7	D
400	1.1-1.7	A	1.1-1.5	B
	1.7-3.2	B	1.5-2.5	C
	3.2-5.5	D	2.2-3.5	D
450	1-1.6	A	1-1.3	B
	1.6-2.8	B	1.3-2.3	C
	2.8-5.5	D	2-2.9	D
500	1-1.4	A	-	-
	1.3-2.5	B	1.2-1.7	C
	2.5-4.5	D	1.6-2.7	D
550	0.8-1.3	A	-	-
	1.3-2.2	B	1.2-1.7	C
	2.2-3.9	D	1.5-2.3	D
600	0.7-1.2	A	-	-
	1.2-2.2	B	1.2-1.5	C
	2.2-4.3	D	1.3-2.1	D

• the values given in the table correspond to 1 piece of lift fitting





# Top Maxi lift

- high load capacity of the lift
- massive metal design
- can be opened using a K-push handleless opening system
- adjustable lift force (both for positioning and automatic opening)
- long-term functionality
- double-sided use



## Maxi top lift

code	description
<b>135042</b>	type "C", strong
<b>135043</b>	type "D", the strongest

- door with height 300 to 1,000 mm or weight 2 to 27 kg (depending on the type of lift and opening angle)
- the possibility of controlling the lift force
- opening angle 75, 90 and 110°
- for Push to open version, we recommend using Tip-On hinges
- ☑ for the opening option with the handle, we recommend using hinges with soft closing, e.g. see p. 1.39-1.49
- ☑ for handleless opening, we recommend the K-push system, p. 1.53-1.55 (extra strong with magnet)



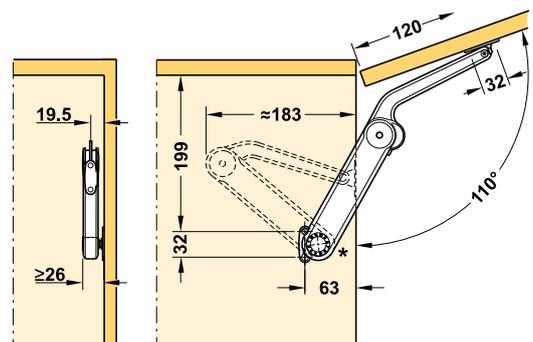
## Fasteners

code	description
<b>135044</b>	on cabinet body
<b>135045</b>	full door
<b>135047</b>	narrow aluminium frame

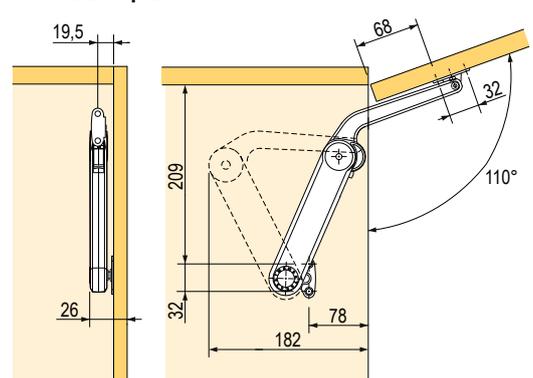


door height (mm)	type of the lift	110° with handle	110° Push to open, automatic
		weight (kg)	weight (kg)
300	C	5.4-10.0	3.5-6.1
	D	-	5.1-7.8
400	C	4.2-8.1	2.7-4.6
	D	4.8-9.0	3.4-5.0
500	C	3.2-6.3	2.3-3.7
	D	2.8-7.5	3.0-4.9
600	C	2.7-6.0	1.8-3.1
	D	3.5-6.8	2.5-4.2
700	C	2.5-4.5	1.6-2.7
	D	3.0-5.2	2.2-3.5
800	C	2.2-3.6	-
	D	2.6-4.7	1.8-3.1
900	C	-	-
	D	2.3-4.3	1.4-2.9
1,000	C	-	-
	D	2.0-4.0	1.2-2.6

110° with handle



110° Push to open





**N Maxi Up lift**

code	description
<b>395719</b>	force "H", the strongest

- for doors with height 400 to 600 mm or weight 4 to 18.8 kg (depending on the door height and the set lift force)
  - the possibility of controlling the lift force
  - 75° opening angle
- we recommend to use hinges, e.g. see p. 1.39–1.49

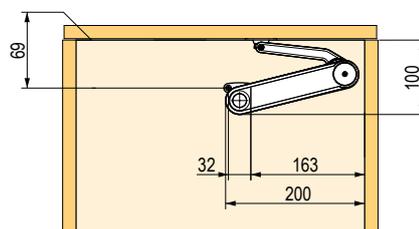
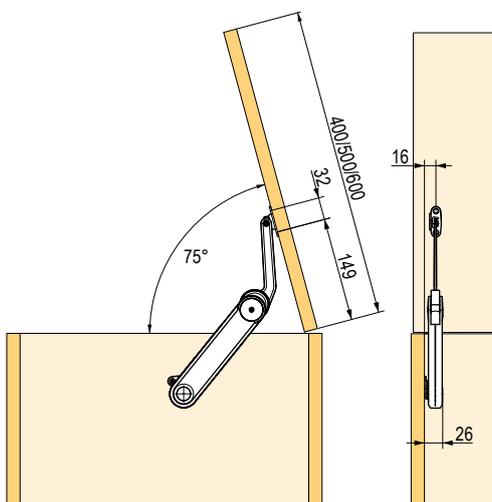


**Fasteners**

code	description
<b>135044</b>	on cabinet body
<b>135045</b>	full door



door height (mm)		
	door weight (kg)	door weight (kg)
400	5.2–9.4	10.4–18.8
500	4.3–7.5	8.6–15.0
600	4.0–6.7	8.0–13.4





# Duo and Duo Forte

## Duo

code	angle
<b>135017</b>	75°, 90°, 110°

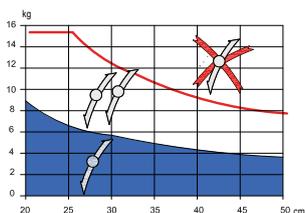
- mechanism for cabinets with top and bottom lifting (by turning the legs)
- doors with max. height 500 mm or weight 6 kg
- minimum inner cabinet body clearance 135 mm
- 75, 90 and 110° opening angle
- smooth strength control by a cam
- lift must be tightened after approximately 200 cycles
- magnet must be used for the bottom lift  can be combined with dampened and non-dampened hinges, e.g. see p. 1.39-1.49

### mounting dimensions

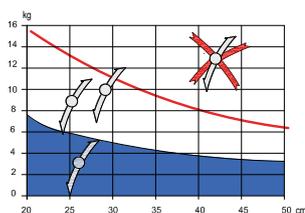
$\alpha$ opening angle	X (mm)	Y (mm)
75°	132	160
90°	90	160
110°	92	128



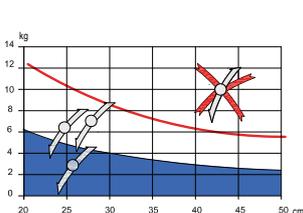
lift force for top lift 75°



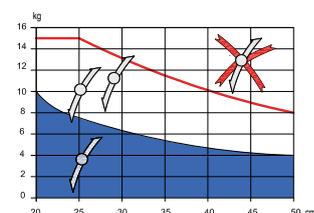
lift force for top lift 90°



lift force for top lift 110°



lift force for bottom lift 90°



## Duo Forte

code	angle
<b>135018</b>	75, 90, 110°

- mechanism for cabinets with top and bottom lifting (by turning the legs)
- doors with max. height 720 mm or weight 6 kg
- minimum inner cabinet body clearance 172 mm
- 75, 90 and 110° opening angle
- smooth strength control by a cam
- lift must be tightened after approximately 200 cycles
- magnet must be used for the bottom lift

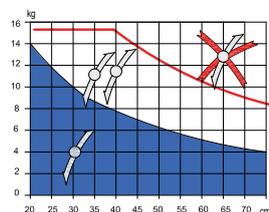
can be combined with dampened and non-dampened hinges, e.g. see p. 1.39-1.49

### mounting dimensions

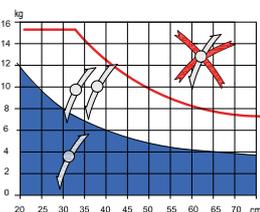
$\alpha$ opening angle	X (mm)	Y (mm)
75°	196	224
90°	166	192
110°	138	167



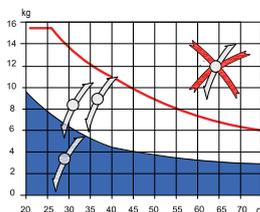
lift force for top lift 75°



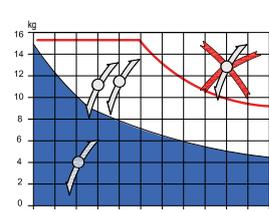
lift force for top lift 90°



lift force for top lift 110°

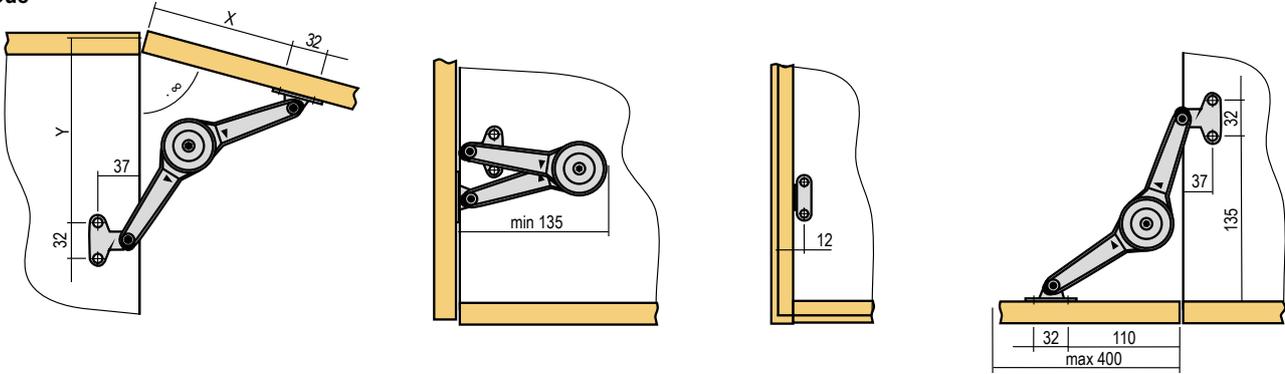


lift force for bottom lift 90°

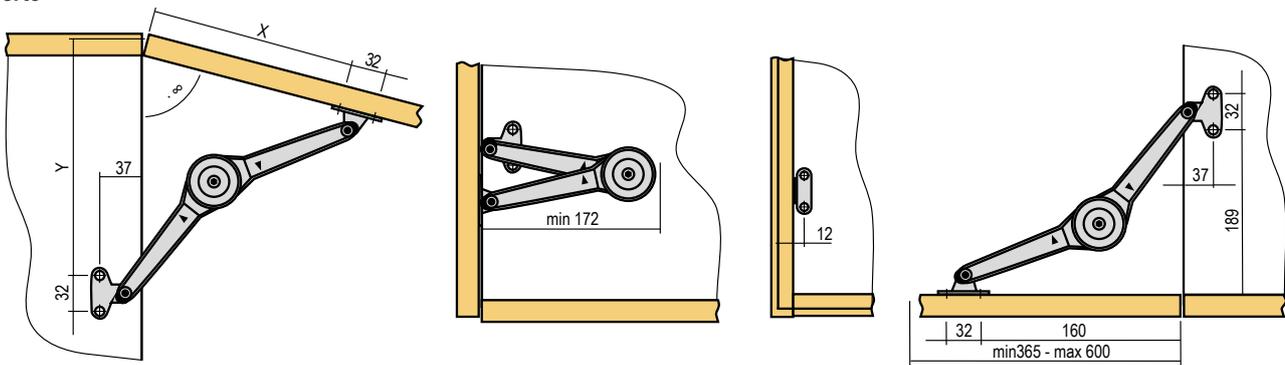




Duo



Forte



Cabinet body fastener

code	description
135019	screw



Door fastener

code	description
135045	euro screw
135021	screw



Aluminium frame fastener

code	description
135024	screw

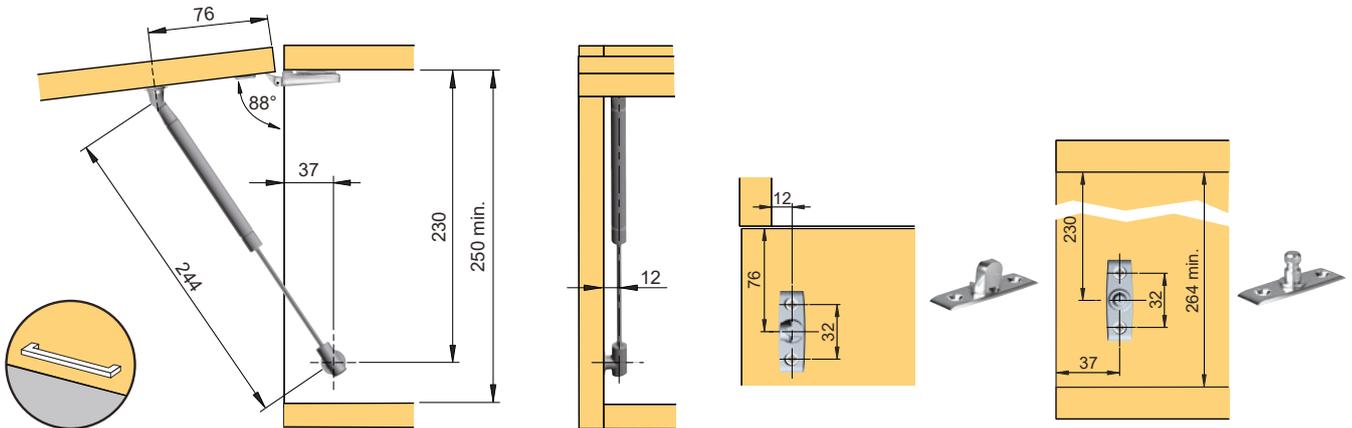




## K12 gas and oil lift-up, 244 mm

code	description
<b>282471</b>	50 N
<b>282472</b>	80 N
<b>282473</b>	100 N
<b>282474</b>	120 N

- for door height 300-500 mm and weight 1-9 kg (depending on the height of the door)
- minimalist design, piston diameter only 12 mm
- the dimensions given in the table apply to the opening version with handle
- for handleless opening, follow the enclosed instructions or the instructions on the website
- ☑ can be combined with fasteners for drilling-in, see p. 1.104



H (mm)	door weight (kg)															
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5
300	1×50 N	1×80 N	2×50 N		2×80 N					2×100 N		2×120 N				
350	1×50 N	1×80 N	2×50 N	2×80 N					2×100 N		2×120 N		2×140 N			
400	1×50 N	1×80 N	2×50 N	2×80 N			2×100 N		2×120 N							
450	1×50 N	2×50 N		2×80 N			2×100 N		2×120 N							
500	1×50 N	2×50 N		2×80 N		2×100 N		2×120 N								

☑ for hinges see p. 1.39-1.49  
 ☑ for mounting screws and euro screws see p. 7.3-7.18

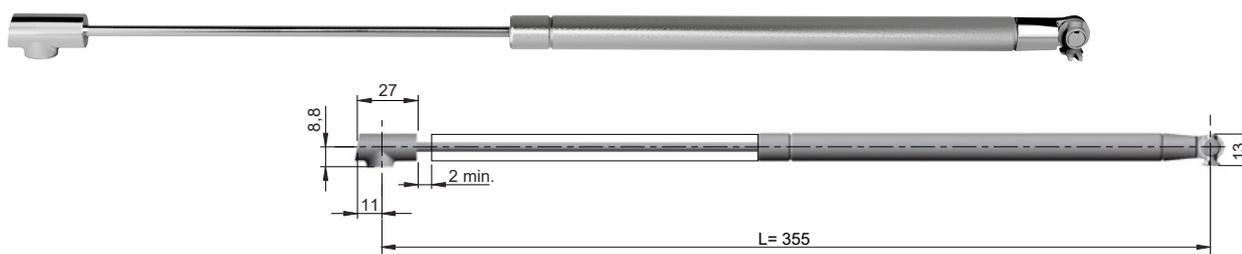
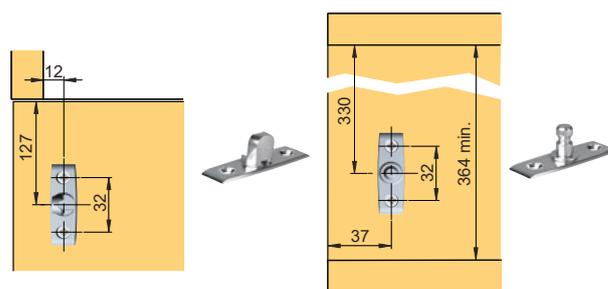
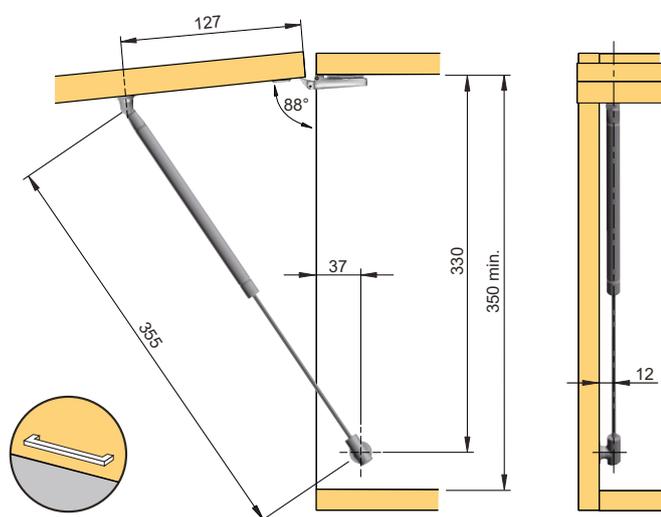




**K12 gas and oil lift-up, 355 mm**

code	description
<b>282475</b>	60 N
<b>282476</b>	90 N
<b>282477</b>	110 N

- for door height 400-600 mm and weight 1-18 kg (depending on the height of the door)
- minimalist design, piston diameter only 12 mm
- the dimensions given in the table apply to the opening version with handle
- for handleless opening, follow the enclosed instructions or the instructions on the website
- ☑ can be combined with fasteners for drilling-in, see p. 1.104



H (mm)	door weight (kg)																																	
	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5
400	1 × 60 N		1 × 80 N		2 × 60 N				2 × 90 N				2 × 110 N				2 × 130 N				3 × 110 N				3 × 130 N									
450	1 × 60 N		1 × 80 N		2 × 60 N				2 × 90 N				2 × 110 N				2 × 130 N				3 × 110 N				3 × 130 N		4 × 110 N							
500	1 × 60 N		1 × 80 N		2 × 60 N				2 × 90 N				2 × 110 N				2 × 130 N				3 × 110 N		3 × 130 N				4 × 110 N							
550	1 × 60 N		1 × 80 N		2 × 60 N		2 × 90 N		2 × 110 N		2 × 130 N		3 × 110 N				3 × 130 N		4 × 110 N		4 × 130 N													
600	1 × 80 N		2 × 60 N		2 × 90 N		2 × 110 N		2 × 130 N				3 × 110 N		3 × 130 N		4 × 110 N		4 × 130 N															

☑ for hinges see p. 1.39-1.49  
☑ for mounting screws and euro screws see p. 7.3-7.18





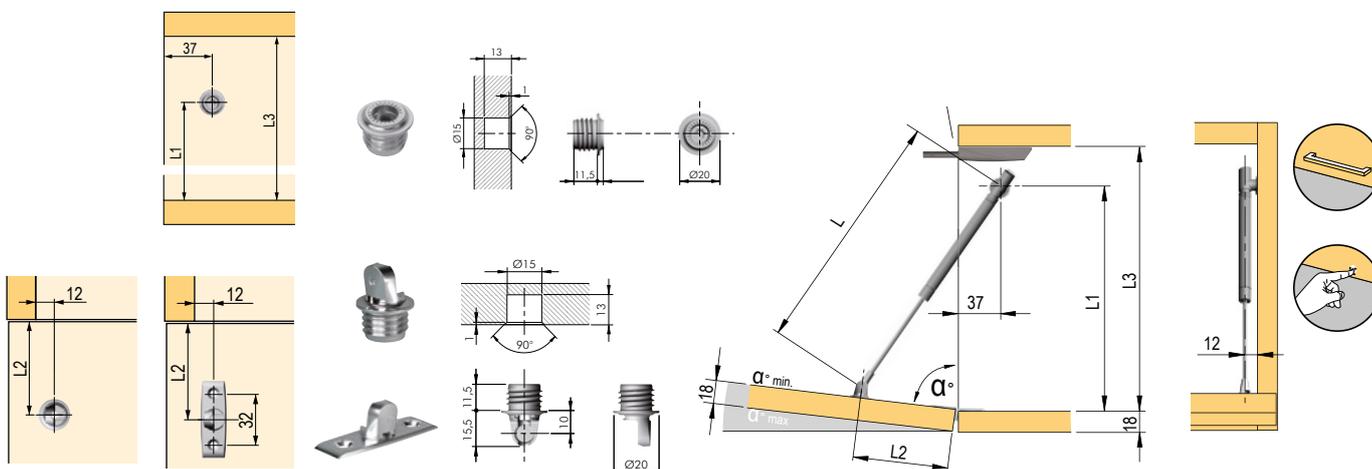
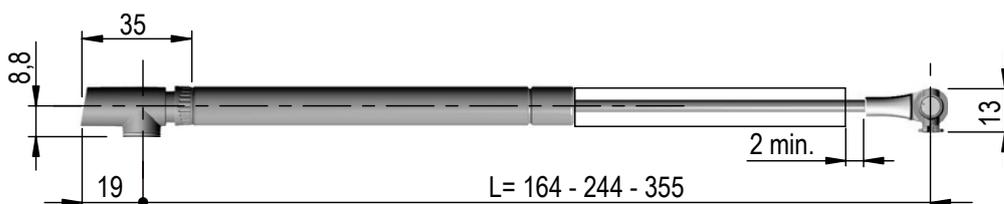
## K12 gas and oil drop-down

code	description
<b>355722</b>	164 mm
<b>355724</b>	244 mm
<b>355726</b>	355 mm

	L	L1	L2	L3
K12 164	164	158	39	180 min.
K12 244	244	230	76	250 min.
K12 355	355	330	127	350 min.



- minimalist design, piston diameter only 12 mm
- the dimensions given in the table apply to the opening version with handle and when using concealed hinge with spring
- for other versions (handleless opening, Kimana hinges) follow the enclosed instructions or the instructions on the website
- ☑ recommended use in combination with Kimana hinges, p. 1.57-1.58
- ☑ very good function of handleless opening (for combination with the K-push system see p. 1.53-1.54)





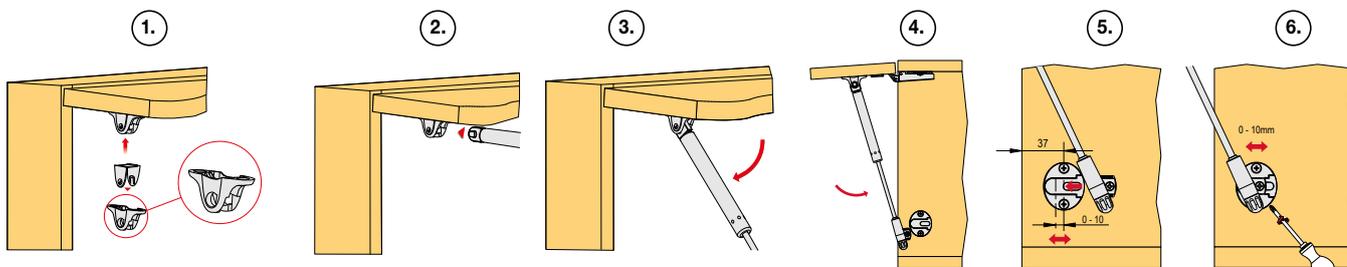
**KRABY adjustable lift-up, 164 mm**

code	description
<b>135006</b>	45 N
<b>135007</b>	60 N

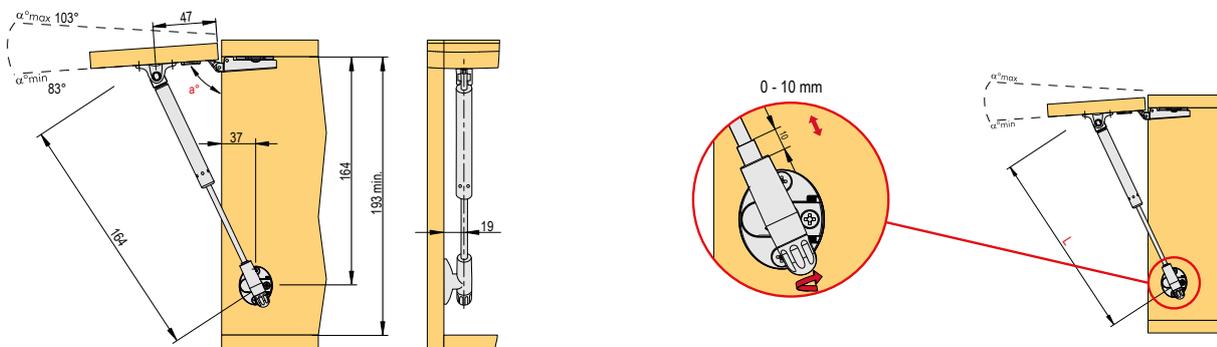
- holds open in various positions
- possibility to adjust the opening angle using a screw on the piston (angle 83–103°)
- ☑ for fastener for narrow aluminium frame see p. 1.104
- minimum required inner space 193 mm
- for door dimensions 230–300 mm



door width	450 mm		600 mm		900 mm		1,200 mm	
	kg	quantity × N						
door height (mm)								
230–250	1.2 ÷ 1.3	1 × 45	1.6 ÷ 1.8	1 × 45	2.4 ÷ 2.6	2 × 45	3.2 ÷ 3.5	2 × 45
251–300	1.3 ÷ 1.6	1 × 45	1.8 ÷ 2.1	2 × 45	2.6 ÷ 3.2	2 × 45	3.5 ÷ 4.2	2 × 60



❗ it is necessary to follow the procedure of attaching the drop-down into the door fastener as shown in the picture



- the dimensions given in the drawing apply to the opening version with handle
- for handleless opening, follow the enclosed instructions or the instructions on the website
- the dimensions given in the drawing apply to the opening version with handle
- for handleless opening, follow the enclosed instructions or the instructions on the website
- ☑ for hinges see p. 1.39–1.49
- ☑ for mounting screws and euro screws see p. 7.3–7.18



**KRABY adjustable lift-up, 244 mm**

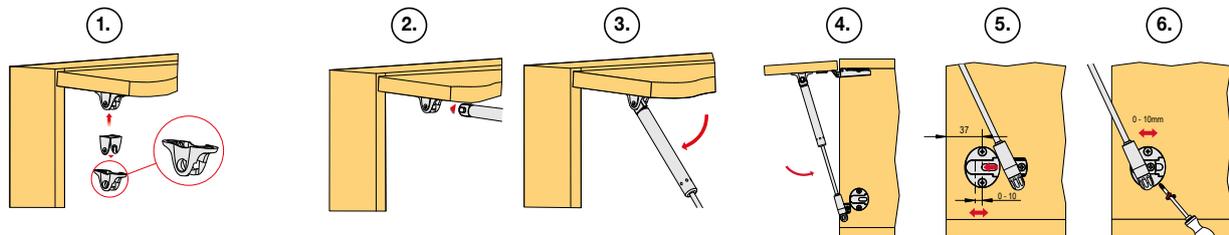
code	description
<b>15590</b>	45 N
<b>15591</b>	60 N
<b>15592</b>	90 N
<b>15593</b>	120 N

- holds open in various positions
- possibility to adjust the opening angle using a screw on the piston (angle 83-94°)
- ☑ for fastener for narrow aluminium frame see p. 1.104

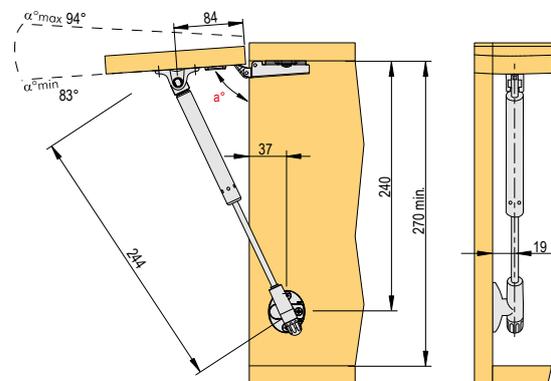


- minimum required inner space 270 mm
- for door dimensions 300-550 mm

door width	450 mm		600 mm		900 mm		1,200 mm		1,500 mm	
	kg	quantity × N								
300-350	1.6 ÷ 1.8	1 × 45	2.1 ÷ 2.5	1 × 60	3.2 ÷ 3.7	1 × 90	4.2 ÷ 4.9	2 × 45	5.3 ÷ 6.1	2 × 60
351-400	1.8 ÷ 2.1	1 × 45	2.5 ÷ 2.8	1 × 60	3.7 ÷ 4.2	2 × 45	4.9 ÷ 5.6	2 × 60	6.1 ÷ 7	2 × 90
401-450	2.1 ÷ 2.4	1 × 60	2.8 ÷ 3.2	2 × 45	4.2 ÷ 4.7	2 × 60	5.6 ÷ 6.3	2 × 90	7 ÷ 7.9	2 × 90
451-500	2.4 ÷ 2.6	2 × 45	3.2 ÷ 3.5	2 × 60	4.7 ÷ 5.3	2 × 60	6.3 ÷ 7	2 × 120	×	×
501-550	2.6 ÷ 2.9	2 × 45	3.5 ÷ 3.9	2 × 60	5.3 ÷ 5.8	2 × 90	7 ÷ 7.7	2 × 120	×	×

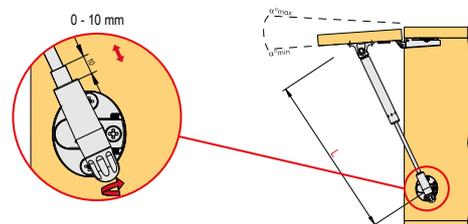


❗ it is necessary to follow the procedure of attaching the drop-down into the door fastener as shown in the picture



- the dimensions given in the drawing apply to the opening version with handle
- for handleless opening, follow the enclosed instructions or the instructions on the website

- ☑ for hinges see p. 1.39-1.49
- ☑ for mounting screws and euro screws see p. 7.3-7.18





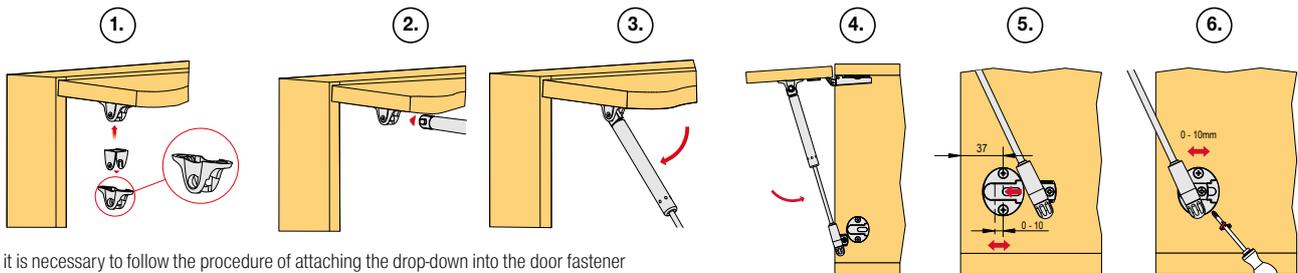
**KRABY adjustable lift-up, 355 mm**

code	description
<b>135008</b>	45 N
<b>135009</b>	60 N
<b>135010</b>	90 N
<b>135011</b>	120 N
<b>129029</b>	160 N

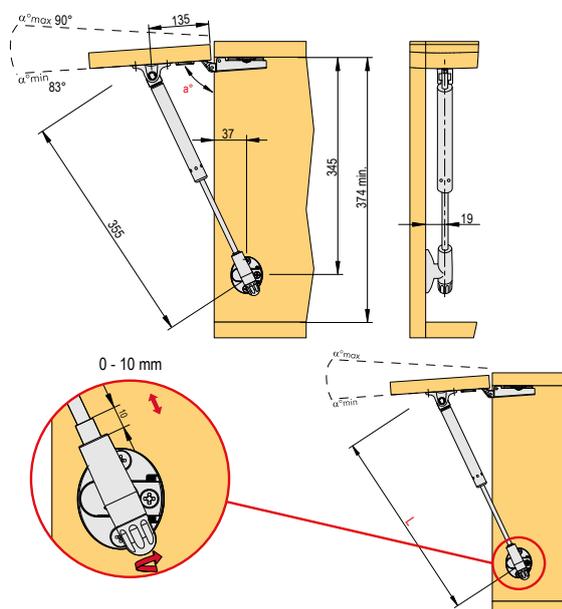


- remains open in various positions
- possibility to adjust the opening angle using a screw on the piston (angle 83–94°)
- ☑ for fastener for narrow aluminium frame see p. 1.104
- minimum required inner space 374 mm
- for door dimensions 400–700 mm

door width	450 mm		600 mm		900 mm		1,200 mm		1,500 mm		1,800 mm	
door height (mm)	kg	quantity × N	kg	quantity × N	kg	quantity × N						
400–450	2.1 ÷ 2.4	1 × 60	2.8 ÷ 3.2	2 × 45	4.2 ÷ 4.7	2 × 45	5.6 ÷ 6.3	2 × 60	7 ÷ 7.9	2 × 60	8.4 ÷ 9.5	2 × 90
451–500	2.4 ÷ 2.6	1 × 60	3.2 ÷ 3.5	2 × 45	4.7 ÷ 5.3	2 × 45	6.3 ÷ 7	2 × 60	7.9 ÷ 8.8	2 × 90	9.5 ÷ 10.5	2 × 90
501–550	2.6 ÷ 2.9	1 × 60	3.5 ÷ 3.9	2 × 45	5.3 ÷ 5.8	2 × 60	7 ÷ 7.7	2 × 90	8.8 ÷ 9.7	2 × 90	10.5 ÷ 11.6	2 × 120
551–600	2.6 ÷ 3.2	2 × 45	3.9 ÷ 4.2	2 × 60	5.8 ÷ 6.3	2 × 60	7.7 ÷ 8.4	2 × 90	9.7 ÷ 10.5	2 × 120	×	×
601–650	3.2 ÷ 3.4	2 × 60	4.2 ÷ 4.6	2 × 60	6.3 ÷ 6.8	2 × 90	8.4 ÷ 9.1	2 × 120	×	×	×	×
651–700	3.4 ÷ 3.7	2 × 60	4.6 ÷ 4.9	2 × 60	6.8 ÷ 7.4	2 × 90	9.1 ÷ 9.8	2 × 120	×	×	×	×



❗ it is necessary to follow the procedure of attaching the drop-down into the door fastener as shown in the picture



- the dimensions given in the drawing apply to the opening version with handle
- for handleless opening, follow the enclosed instructions or the instructions on the website

- ☑ for hinges see p. 1.39–1.49
- ☑ for mounting screws and euro screws see p. 7.3–7.18



# HINGES AND LIFT FITTINGS

## KRABY drop-down

### KRABY drop-down

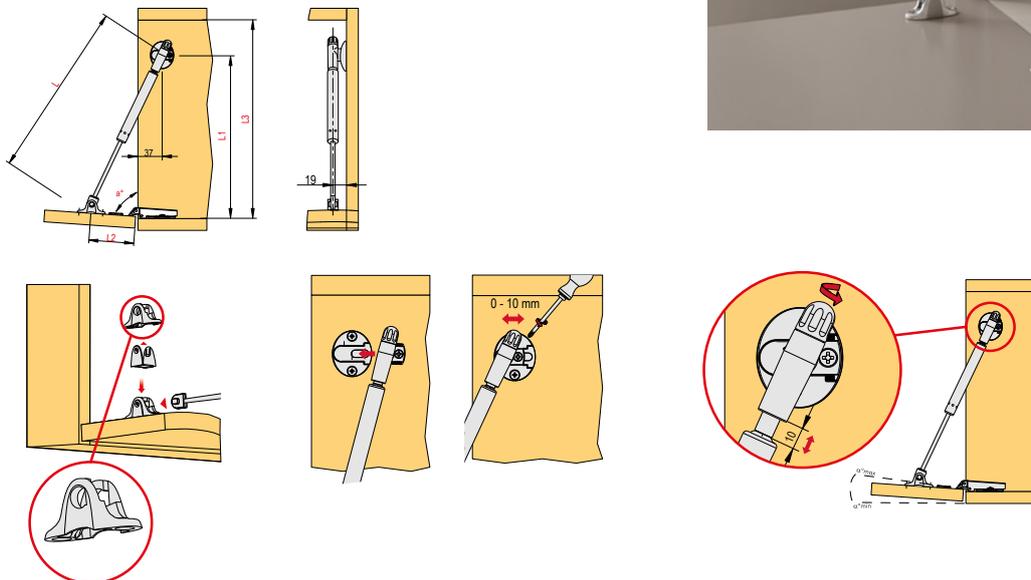
code	description
<b>15588</b>	164 mm
<b>15594</b>	244 mm
<b>15589</b>	355 mm

code	L (mm)	L1 (mm)	L2 (mm)	L3 (mm)
<b>15588</b>	164	164	47	min. 193
<b>15594</b>	244	240	84	min. 270
<b>15589</b>	355	345	135	min. 374

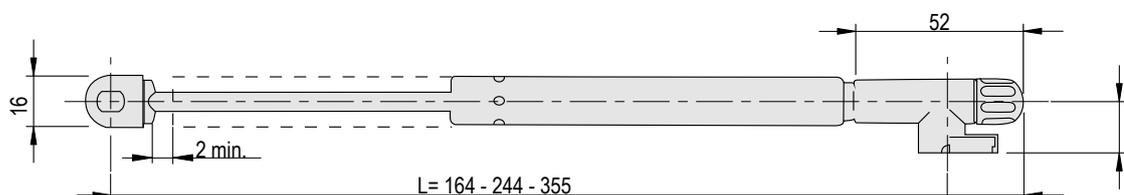
- the dimensions given in the table apply to the opening version with handle and when using concealed hinge with spring
- for other versions (handleless opening, Kimana hinges) follow the enclosed instructions or the instructions on the website

door height (mm)	type of lift	weight (kg)
225-250	2 × 15588	< 3.5
301-350	2 × 15594	< 4.9
401-450	2 × 15589	< 6.3

- max. door width: 1,200 mm
  - possibility to adjust the opening angle using a screw on the piston (angle 85-90°)
- for fastener for narrow aluminium frame see p. 1.104



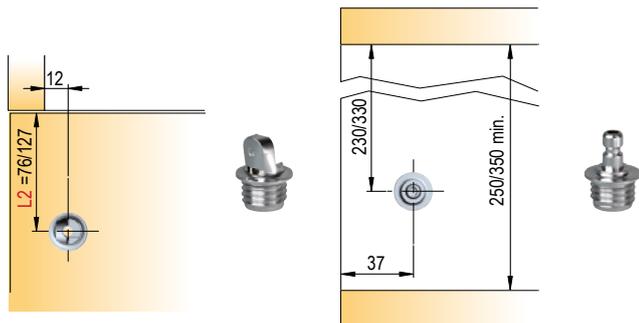
- !** Mount the front fastener so that the piston is inserted from the front.  
**This instruction must be followed, otherwise damage may be caused!**





### Fastener for drilling-in for K12 struts

code	description
<b>361121</b>	on cabinet body (only for K12 top lift)
<b>361122</b>	on door



- drilling diameter 15 mm, depth 13 mm

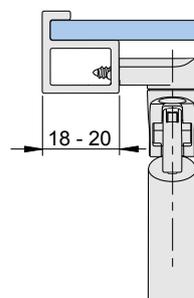
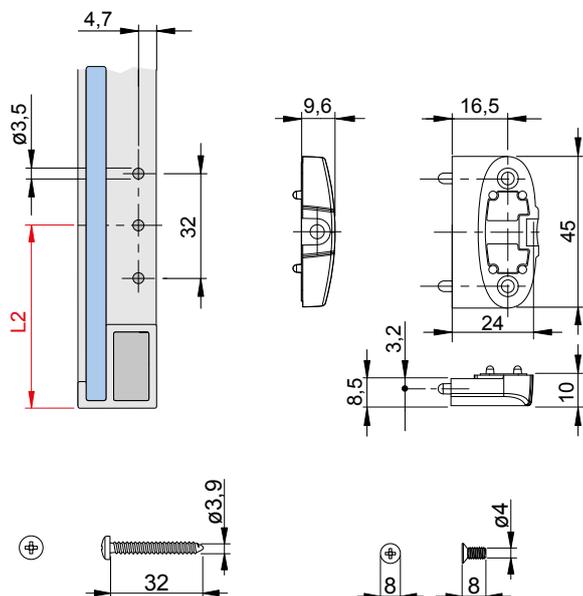
### K12 accessories for mounting on aluminium frames

code	description
<b>282479</b>	adapter for thin aluminium frame

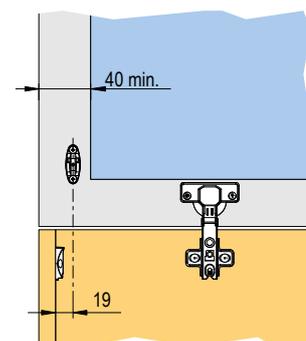


### Accessories for mounting on aluminium frames for KRABY

code	description
<b>15597</b>	adapter for thin aluminium frame
<b>15598</b>	mounting screw, 5 × 10.5 mm, self-tapping
<b>15599</b>	mounting screw, 3.9 × 32 mm, self-tapping



KRABY	L2 (mm)
164	47
244	84
355	135





# Kiaro drop-down with soft closing

## Kiaro

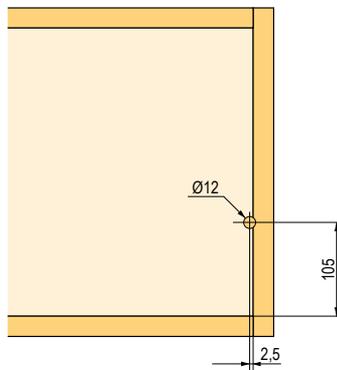
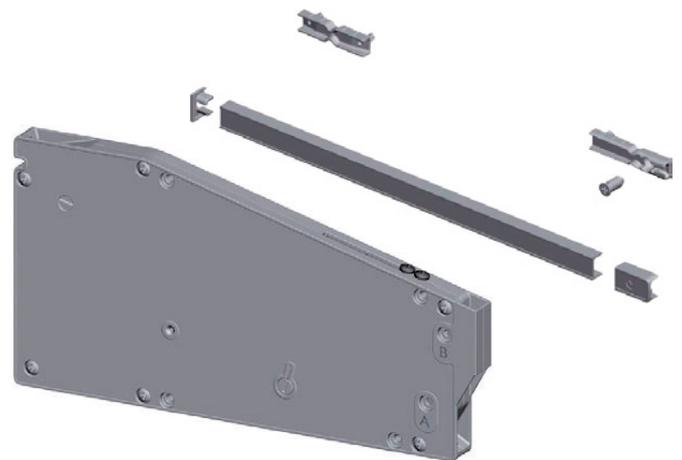
- minimalist, timeless design, mechanism hidden behind the back panel
- the mechanism can be used on both sides
- easy installation on the back panel of the cabinet body
- also version with LED lighting
- can be opened using a K-push handleless opening system
- opening angle adjustment
- gradual opening and soft closing during closing



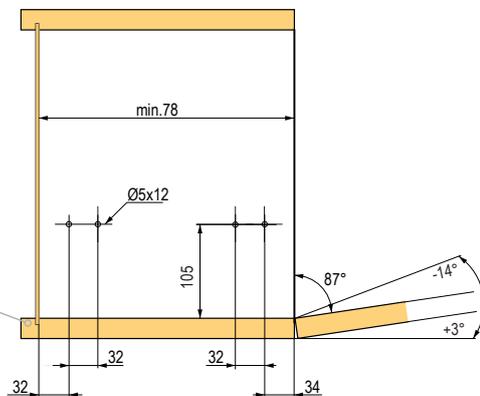
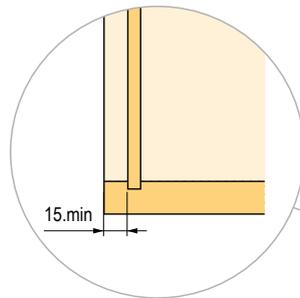
### N Kiaro drop-down with soft closing

type	colour	
	T-Met	Gunmetal
Kiaro S with soft closing	<b>405998</b>	<b>405997</b>
Kiaro S with LED strip	<b>405996</b>	<b>405995</b>
Kiaro with soft closing	<b>392158</b>	<b>392159</b>
Kiaro with LED strip	<b>392164</b>	<b>392165</b>

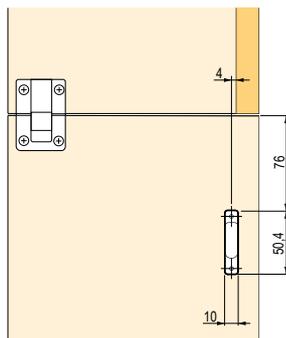
- two types for the lighter Kiaro S door and for the heavier Kiaro door
  - adjustment of the lift force directly on the mechanism
  - possibility to adjust the opening angle
- ☑ for handleless opening, we recommend the K-push system, p. 1.53-1.54  
 ☑ recommended use in combination with Kimana hinge, p. 1.57-1.58



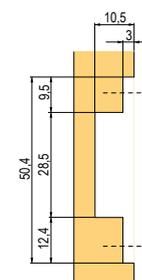
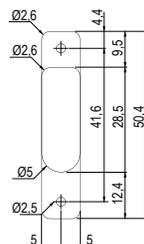
rear view - hole for a wire



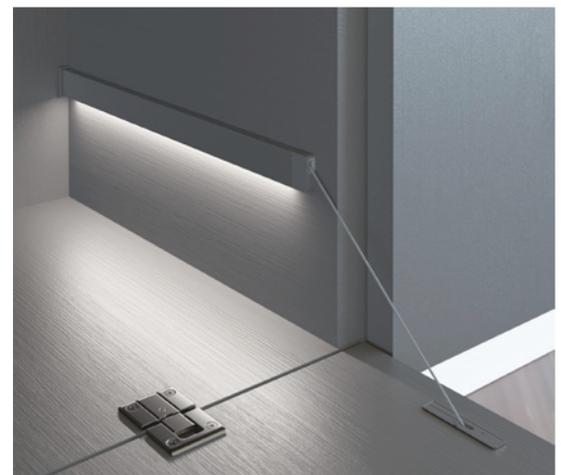
cabinet body side panel - holes for bracket



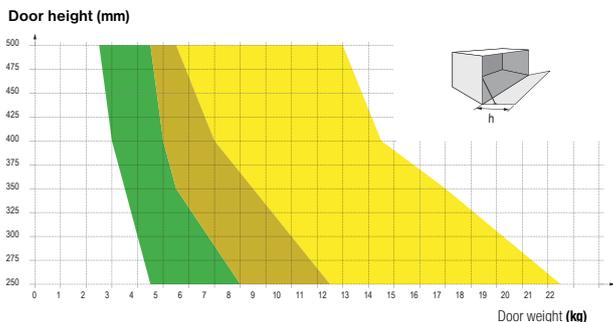
top view - hole for door bracket



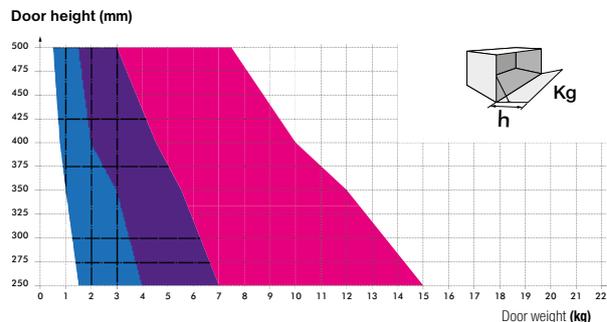
depth of milling the hole for the door bracket



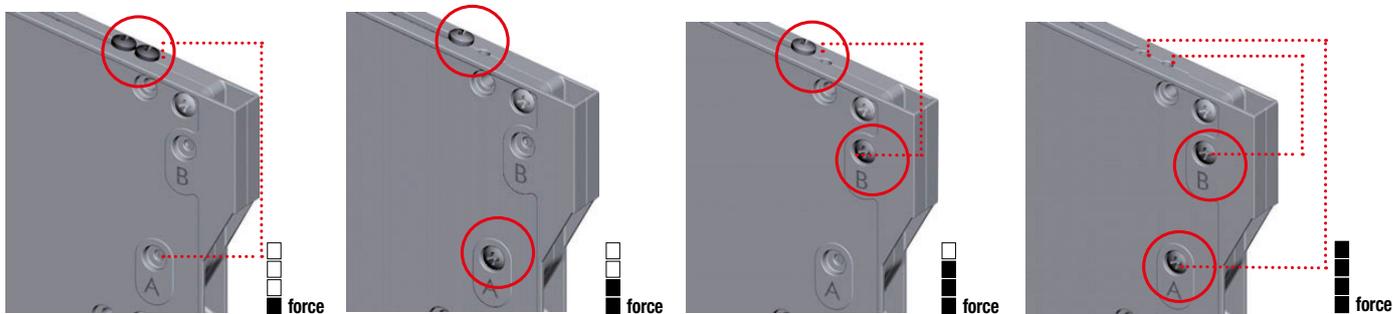
# Kiario drop-down with soft closing



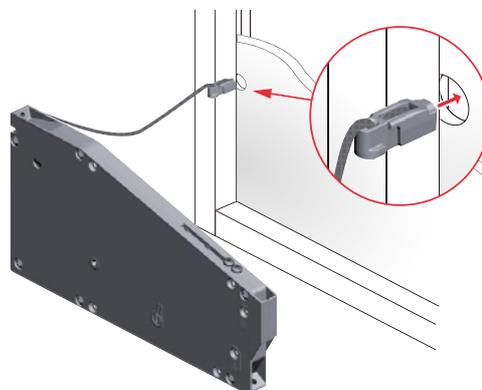
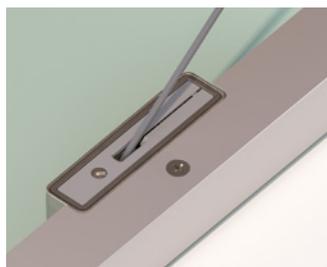
- = 1 × Kiario
- = 1 × or 2 × Kiario
- = 2 × Kiario



- = 1 × Kiario S
- = 1 × or 2 × Kiario S
- = 2 × Kiario S



- the lift force can be adjusted with the screws



## ACCESSORIES

code	description
<b>392166</b>	LED lighting power supply set
<b>406007</b>	door bracket without milling of the doors
<b>406008</b>	door bracket for aluminium frame

- Set contains:
- transformer
  - sensor with hub
  - extension cable





# Link drop-down with soft closing

Link

- soft closing and opening
- massive metal enclosure, stainless steel cable
- can be opened using a K-push handleless opening system
- minimalist, timeless design



## Link drop-down with soft closing

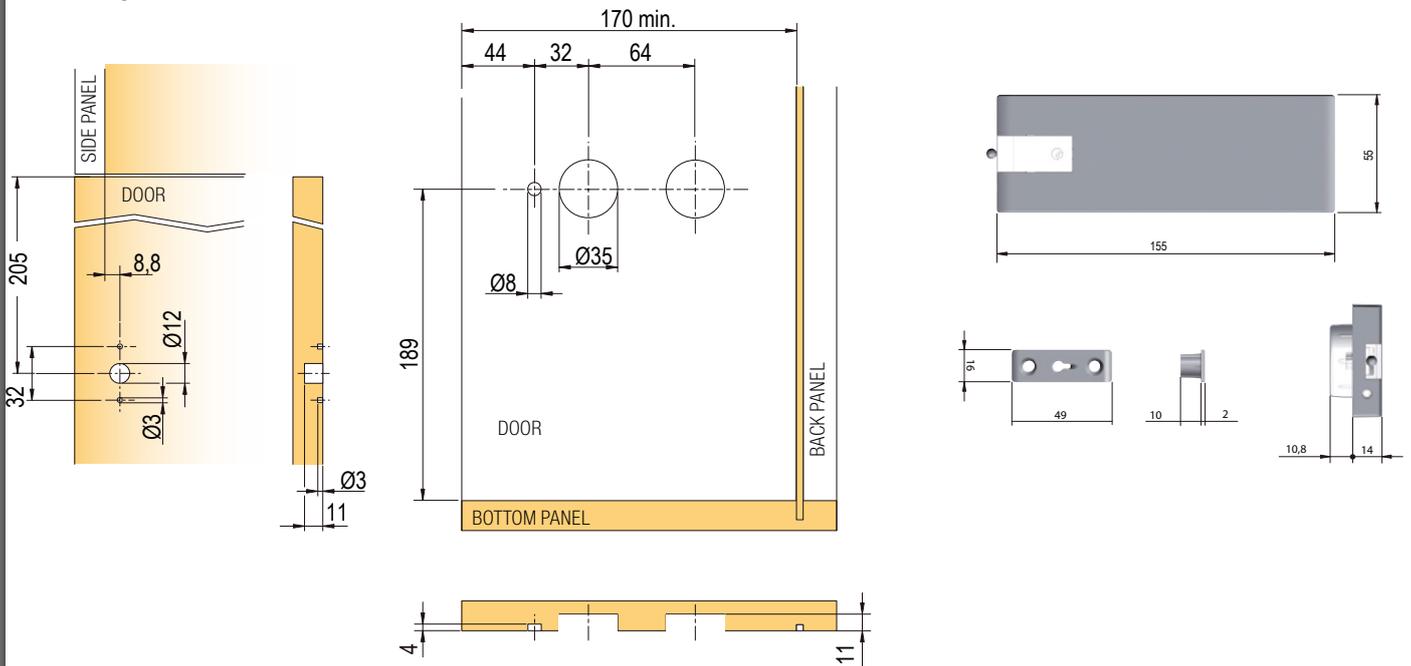
type	colour	
	white	T-met
A262	<b>265512</b>	<b>265504</b>
N262	<b>265515</b>	<b>265507</b>
U262	<b>265517</b>	<b>265509</b>
AL280	<b>265519</b>	<b>264968</b>
AQ300	<b>265520</b>	<b>264969</b>
AQ335	<b>265521</b>	<b>265511</b>



- load capacity up to 9 kg (depending on door height)
- possibility to adjust the opening angle (aligned with the cabinet body bottom)
- the force of the lift cannot be set, it is fixed
- usable for both right and left side
- 🔗 for handleless opening, we recommend the K-push system, p. 1.53–1.54
- 🔗 **recommended use in combination with Kimana hinge, p. 1.57–1.58**
- 🔗 when using classic hinges, use unsprung hinges, p. 1.44–1.45



### Drilling scheme



# Link drop-down with soft closing



## Calculation of the force of Link drop-down (proven when using Kimana hinges)

kg	Door height (mm)										
	250	275	300	325	350	375	400	425	450	480	
1,75	x x	x x	x x	x x	x x	x x	x x	x x	A262 A262	A262 A262	A262 A262
2,00	x x	x x	x x	x x	A262 A262	A262 A262	A262 A262	x x	x x	A262 N262	A262 N262
2,25	x x	x x	x x	A262 A262	A262 A262	A262 A262	A262 N262	A262 N262	A262 N262	A262 N262	A262 U262
2,50	x x	A262 A262	A262 A262	A262 A262	A262 A262	A262 N262	A262 N262	A262 N262	A262 N262	A262 U262	A262 U262
2,75	x x	A262 A262	A262 A262	A262 U262	A262 N262	A262 N262	A262 U262				
3,00	A262 A262	A262 A262	A262 N262	A262 N262	A262 N262	A262 U262	A262 U262	A262 U262	N262 U262	N262 U262	U262 U262
3,25	A262 A262	A262 N262	A262 N262	A262 N262	A262 U262	A262 U262	N262 U262	N262 U262	N262 U262	U262 U262	U262 U262
3,50	A262 A262	A262 N262	A262 N262	A262 N262	A262 U262	N262 U262	N262 U262	N262 U262	U262 U262	U262 U262	N262 AL280
3,75	A262 N262	A262 N262	A262 U262	A262 U262	N262 U262	N262 U262	U262 U262	U262 U262	U262 U262	N262 AL280	U262 AL280
4,00	A262 N262	A262 U262	A262 U262	N262 U262	N262 U262	U262 U262	U262 U262	N262 AL262	U262 AL280	U262 AL280	U262 AL280
4,25	A262 N262	A262 U262	N262 U262	N262 U262	U262 U262	U262 U262	N262 AL280	U262 AL280	U262 AL280	U262 AL280	U262 AL280
4,50	A262 U262	A262 U262	N262 U262	U262 U262	U262 U262	N262 AL280	U262 AL280				
4,75	A262 U262	N262 U262	U262 U262	U262 U262	U262 U262	N262 AL280	U262 AL280	U262 AL280	U262 AL280	AL280 AL280	AL280 AL280
5,00	N262 U262	N262 U262	U262 U262	N262 AL280	U262 AL280	U262 AL280	U262 AL280	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AL280
5,25	N262 U262	U262 U262	U262 U262	N262 AL280	U262 AL280	U262 AL280	U262 AL280	AL262 AL280	AL280 AL280	AL280 AL280	AL280 AQ300
5,50	N262 U262	U262 U262	N262 AL280	U262 AL280	U262 AL280	U262 AL280	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AL280 AQ300
5,75	U262 U262	U262 U262	N262 AL280	U262 AL280	U262 AL280	U262 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AL280 AQ300	AQ300 AQ300
6,00	U262 U262	N262 AL280	U262 AL280	U262 AL280	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AL280 AQ300	AQ300 AQ300
6,25	U262 U262	N262 AL280	U262 AL280	U262 AL280	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AL280 AQ300	AQ300 AQ300	AQ300 AQ300
6,50	N262 AL280	U262 AL280	U262 AL280	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ335
6,75	N262 AL280	U262 AL280	U262 AL280	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AL280 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ335
7,00	U262 AL280	U262 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AL280 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ335	AQ335 AQ335
7,50	U262 AL280	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ335	AQ335 AQ335	AQ335 AQ335
8,00	U262 AL280	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ335	AQ335 AQ335	AQ335 AQ335	x x
8,25	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AL280 AQ300	AQ300 AQ300	AQ300 AQ300	AQ335 AQ335	AQ335 AQ335	AQ335 AQ335	x x
8,50	AL280 AL280	AL280 AL280	AL280 AL280	AL280 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ335	AQ335 AQ335	AQ335 AQ335	x x	x x
8,75	AL280 AL280	AL280 AL280	AL280 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ300	AQ335 AQ335	AQ335 AQ335	AQ335 AQ335	x x	x x
9,00	AL280 AL280	AL280 AQ300	AL280 AQ300	AQ300 AQ300	AQ300 AQ300	AQ300 AQ335	AQ335 AQ335	AQ335 AQ335	x x	x x	x x

Explanatory notes:



- only one drop-down can be used for this combination (right or left side mounting)



- for this combination, both mentioned drop-downs must be used



- for this combination, one drop-down or two drop-downs option can be selected (for door width above 600 mm, we recommend using two drop-downs)





# piston for monitor slide

## N Press & open piston for monitor/TV slide

code	description
<b>389664</b>	685 mm/150N
<b>389665</b>	685 mm/200N
<b>389666</b>	865 mm/150N
<b>389667</b>	865 mm/200N



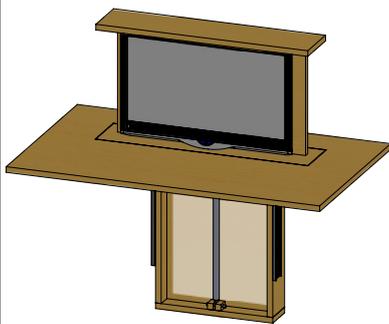
- ball bearing slide must be used to slide the screen with the piston
- pressing the piston will slide in order, to close, it is necessary to push the piston to its original position
- can be used in vertical or horizontal position

Use:

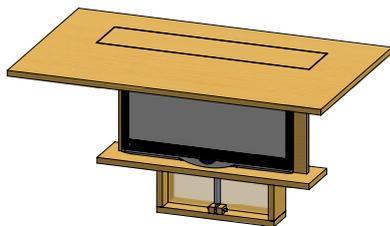
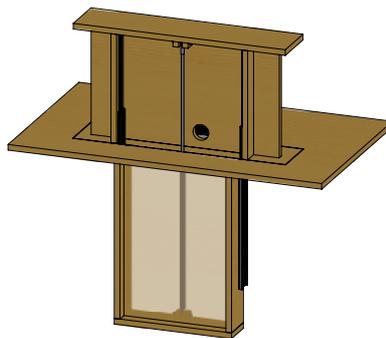
- to slide the monitor from the desk or to slide TV screen from of the cabinet
- minibar in the backrest of the sofa



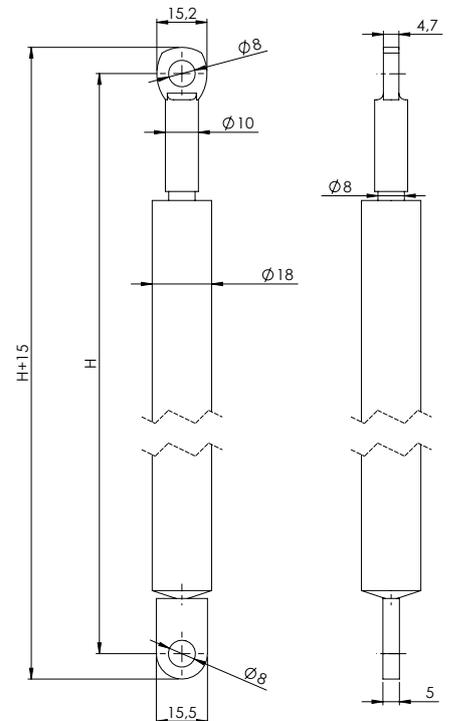
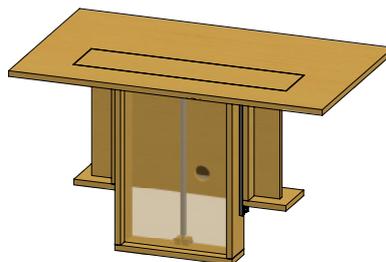
### Installation example:



after piston side



before piston side



The approximate weight of 18 mm MDF is 13 kg/m<sup>2</sup>, for 18 mm LDF (laminated) it is 11.7 kg/m<sup>2</sup> (weight varies by manufacturer, density, recycled share, etc.).

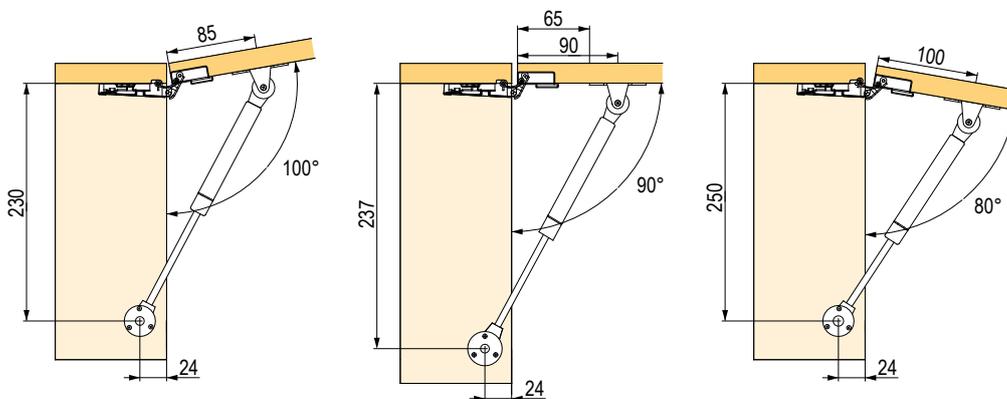

**Strong automatic lift-up, 245 mm**

grey	white	lift force
<b>275672</b>	<b>248162</b>	30 N
<b>275673</b>	<b>248163</b>	60 N
<b>275674</b>	<b>248164</b>	80 N
<b>275675</b>	<b>248165</b>	100 N
<b>275676</b>	<b>248166</b>	120 N



- the door opens to its maximum position (without positioning function)
- ☑ recommended use in combination with unsprung hinges, p. 1.44-1.45

width (mm)	300			400			500			600			700			800			900			1000			
	height (mm)	weight (kg)	pistons	force (N)																					
300	300	1.1	1	30	1.5	1	30	1.9	1	30	2.3	1	60	2.6	1	60	3.0	1	60	3.4	1	60	3.8	1	60
		2	-	2		-	2		-	2		30	2		30	2		30	2		30				
350	350	1.3	1	30	1.8	1	60	2.2	1	60	2.6	1	60	3.1	1	60	3.5	1	80	3.9	1	80	4.4	1	80
		2	-	2		30	2		30	2		30	2		30	2		30+60	2		30+60				
400	400	1.5	1	60	2.0	1	60	2.5	1	60	3.0	1	80	3.5	1	80	4.0	1	100	4.5	1	100	5.0	1	120
		2	30	2		30	2		30	2		30+60	2		30+60	2		30+60	2		60				
450	450	1.7	1	60	2.3	1	60	2.8	1	80	3.4	1	100	3.9	1	100	4.5	1	120	5.1	1	-	5.6	1	-
		2	30	2		30	2		30+60	2		30+60	2		60	2		60+80							
500	500	1.9	1	60	2.5	1	80	3.1	1	100	3.8	1	100	4.4	1	120	5.0	1	-	5.6	1	-	6.3	1	-
		2	30	2		30+60	2		60	2		60	2		60+80										
550	550	2.1	1	80	2.8	1	100	3.4	1	120	4.1	1	-	4.8	1	-	5.5	1	-	6.2	1	-	6.9	1	-
		2	30+60	2		30+60	2		60	2		60+80	2		80	2		80+100							

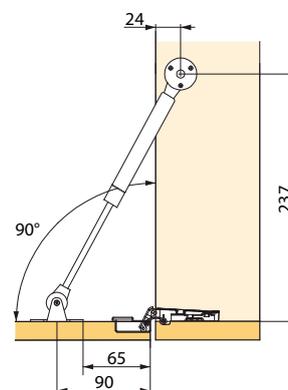




**Strong adjustable lift-up, 245 mm**

grey	white	lift force
<b>284250</b>	<b>284254</b>	60 N
<b>284251</b>	<b>284255</b>	80 N
<b>284252</b>	<b>284256</b>	100 N
<b>284253</b>	<b>284257</b>	120 N

- with a positioning function (you need to use the correct strut force)
- ☑ recommended use in combination with unsprung hinges, p. 1.44- 1.45  
for the exact calculation of the force needed to open the door, the formula can be used:
  - required strut force (N) = door weight (kg) × door height (mm) / 13.5
- for a two-piston option, use half the force



**Strong drop-down**

grey	white	force of the drop-down
<b>275689</b>	<b>248167</b>	drop-down 80 N

**ACCESSORIES**

code	description
<b>276001</b>	fastener for aluminium frames



Strong Tatami soft closing lift-up, 230 mm, code 317900

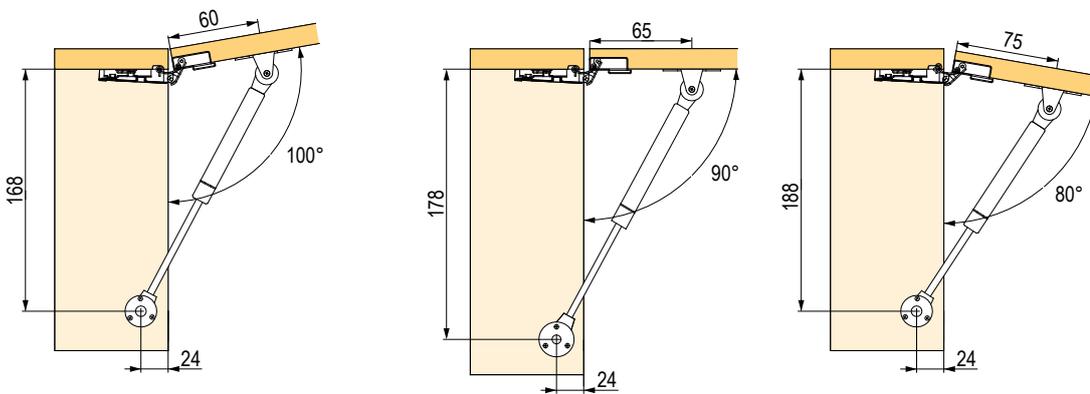




### Strong automatic lift-up, 180 mm

grey	lift force
<b>315986</b>	80 N

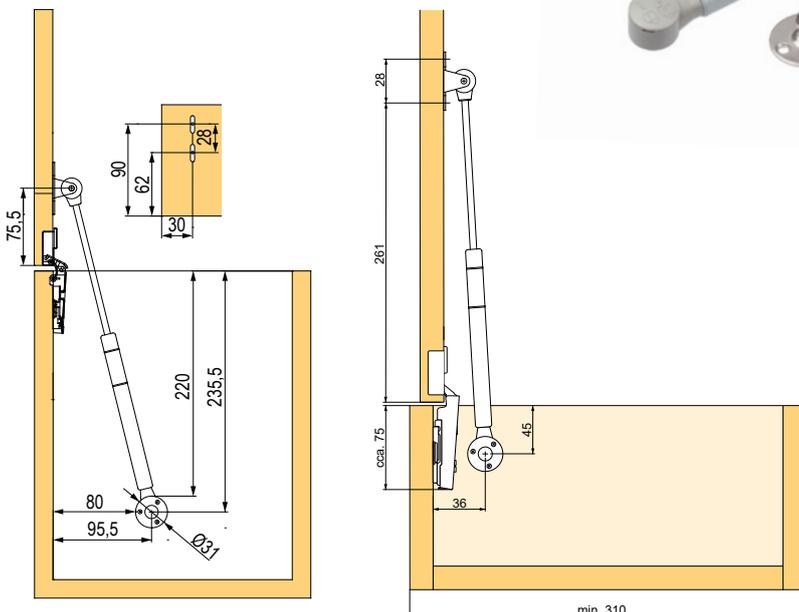
- the door opens to its maximum position (without positioning function)
  - minimum inner height for installation is 185 mm
- recommended use in combination with unsprung hinges, p. 1.44-1.45



### Strong Tatami soft closing lift-up, 230 mm

grey	lift force
<b>317900</b>	120 N

- a lift-up designed for door in horizontal position (chests, etc.)
- with soft closing function
- inner cabinet body depth 270 mm
- from the door width of 600 mm, use two pistons

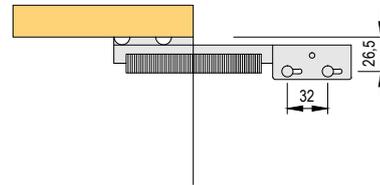
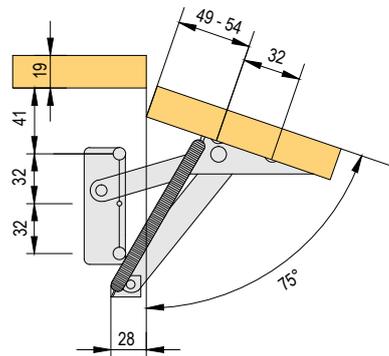
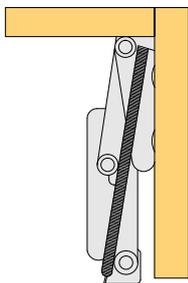


- for cabinet hangers see p. 1.65-1.76  
 for hinges see p. 1.39-1.52  
 for mounting screws and euro screws see p. 7.3-7.18



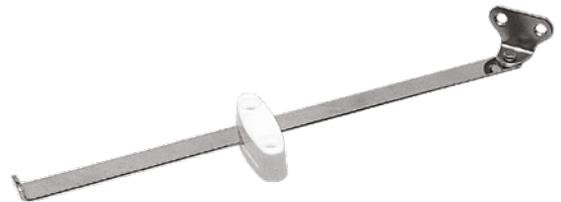
### Spring shears for folding door

code	description
<b>11477</b>	without a possibility to adjust the lift force



### Drop-down

code	description
<b>315018</b>	QUICK 250



### Drop-down

code	description
<b>15620</b>	200, nickel

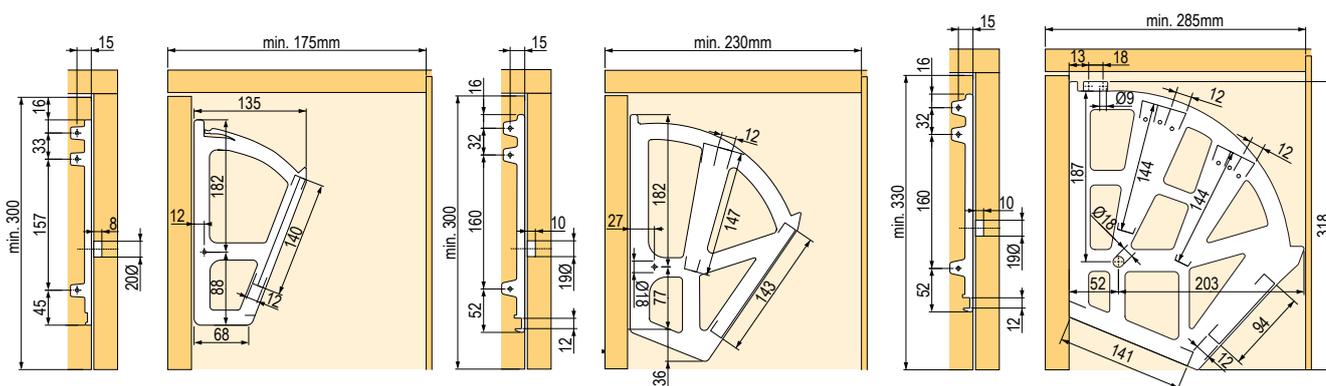
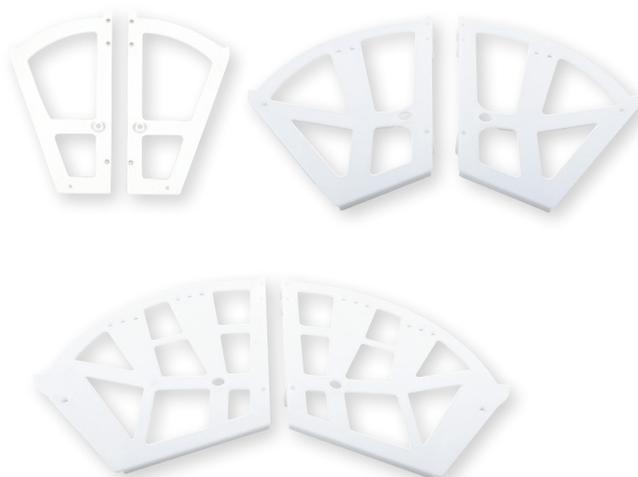




## Fittings for lifting shoe rack

code	description
<b>100246</b>	1-row, plastic, white
<b>11485</b>	2-rows, plastic, white
<b>11484</b>	3-rows, plastic, white

- only for inset door



## Drop-down with brake

code	description
<b>15623</b>	white, left





# Overview of Sensys hinge types



## Nickel-plated steel



**For door thickness 15–24 mm**, with soft closing, with and without self-closing spring for handleless Push to open opening.  
See page: 1.116



**For door thickness 10–16 mm**, with soft closing, with and without self-closing spring for handleless Push to open opening.  
See page: 1.117



**For door thickness 15–32 mm**, with soft closing, with and without self-closing spring for handleless Push to open opening.  
See page: 1.118



**With 165° opening angle and a zero protrusion to the clear inside dimension**, with soft closing and with and without self-closing spring for handleless Push to open opening.  
See page: 1.119



**Angled hinges, with soft closing**, with and without self-closing spring for handleless Push to open opening.  
See page: 1.121



**For thin aluminium frame, with soft closing**, with and without self-closing spring for handleless Push to open opening.  
See page: 1.123

## Obsidian black design



**For door thickness 15–24 mm**, with soft closing and unsprung, for handleless Push to open opening.  
See page: 1.127



**For door thickness 10–16 mm**, with soft closing and unsprung, for handleless Push to open opening.  
See page: 1.128



**For door thickness 15–32 mm**, with soft closing and unsprung for handleless opening Push to open.  
See page: 1.128



**With 165° opening angle and a zero protrusion to the clear inside dimension**, with soft closing and without spring for handleless Push to open opening.  
See page: 1.129



**Angled hinges**, with soft closing and unsprung for handleless Push to open opening.  
See page: 1.130



**Mechanisms for handleless opening**, for Push to open Silent see p. 1.124 for Easys for refrigerators see p. 1.133 K-Push Push to open pins p. 1.53–1.54

### Explanation of terms:

**Sensys** – the name of a series of hinges for clipping onto the plate, which also includes hinges with integrated soft closing

**Obsidian** – designation for the black variant of Hettich (Sensys) hinges

**Intermat** – the name of a series of hinges for snapping onto the base, the soft closing is solved by means of additional dampers

**Slide-on** – the name of a series of hinges to slide onto the mounting plate, the soft closing is solved by means of additional dampers

**Silent System** – soft closing (integrated, external)

**Push to open** – handleless opening

**Push to open Silent** – handleless opening with soft closing

**D** = distance or height of the plate

**B** = projection of the cup over the side of the cabinet body in the closed position


**Hinges for door thickness 15–24 mm, 110° opening angle**
**Full overlay**

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>104717</b>	9071205	8645i	Silent System/ Push to open Silent	screw	12.5	25	8.5
<b>129392</b>	9071208			for pressing-in			
<b>300298</b>	9073567			with expanding sockets			
<b>232346</b>	9071259	8645	without soft closing	screw			
<b>232349</b>	9071262			for pressing-in			
<b>300304</b>	9073576			with expanding sockets			
<b>245723</b>	9071313	8675	Push to open	screw			
<b>245726</b>	9071316			for pressing-in			

- recommended accessories: 105422 – arm cover cap without logo (metal), 105425 – arm cover cap with logo (metal), 105408 – cup cover cap (metal), 207142 – opening angle stop (110 ≥ 85°) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131


**Half overlay**

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>104718</b>	9071206	8645i	Silent System/ Push to open Silent	screw	3	31	18
<b>129393</b>	9071209			for pressing-in			
<b>300299</b>	9073568			with expanding sockets			
<b>232347</b>	9071260	8645	without soft closing	screw			
<b>265735</b>	9071263			for pressing-in			
<b>300305</b>	9073577			with expanding sockets			
<b>245724</b>	9071314	8675	Push to open	screw			
<b>265749</b>	9071317			for pressing-in			

- recommended accessories: 105408 – cup cover cap (metal), 207142 – opening angle stop (110 ≥ 85°) (for photo see p. 1.132)

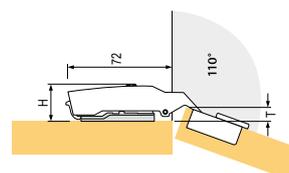
☑ for recommended plates: see p. 1.131


**Inset**

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>104719</b>	9071207	8645i	Silent System/ Push to open Silent	screw	– 4	38	25
<b>160560</b>	9071210			for pressing-in			
<b>300300</b>	9073569			with expanding sockets			
<b>232348</b>	9071261	8645	without soft closing	screw			
<b>265736</b>	9071264			for pressing-in			
<b>300306</b>	9073578			with expanding sockets			
<b>245725</b>	9071315	8675	Push to open	screw			
<b>265750</b>	9071318			for pressing-in			

- recommended accessories: 105408 – cup cover cap (metal), 207142 – opening angle stop (110 ≥ 85°) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131



hinge height H, door protrusion  
T at distance 0 mm and cup  
distance C 3 mm



## Hinges for door thickness 10–16 mm, 110° opening angle

### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>308058</b>	9094270	8646i	Silent System/ Push to open Silent	screw	12.5	25	8.5
<b>346363</b>	9094271			for pressing-in			
<b>372560</b>	9094276			with expanding sockets			
<b>300468</b>	9094360	8646	without soft closing	screw			
<b>300469</b>	9094361			for pressing-in			
<b>300470</b>	9094366			with expanding sockets			
<b>336503</b>	9094450	8676	Push to open	screw			
<b>399131</b>	9094451			for pressing-in			
<b>399134</b>	9094456			with expanding sockets			



- recommended accessories: 105422 – arm cover cap without logo (metal), 105425 – arm cover cap with logo (metal), 300517 – arm cover cap without logo (plastic), 300518 – arm cover cap with logo (plastic), 105408 – cup cover cap (metal), 362244 – opening angle stop (110 ≥ 85°) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131

### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>308454</b>	9094280	8646i	Silent System/ Push to open Silent	screw	3	31	18
<b>399146</b>	9094281			for pressing-in			
<b>399264</b>	9094286			with expanding sockets			
<b>300471</b>	9094370	8646	without soft closing	screw			
<b>300472</b>	9094371			for pressing-in			
<b>300473</b>	9094376			with expanding sockets			
<b>336506</b>	9094460	8676	Push to open	screw			
<b>399138</b>	9094461			for pressing-in			
<b>399141</b>	9094466			with expanding sockets			

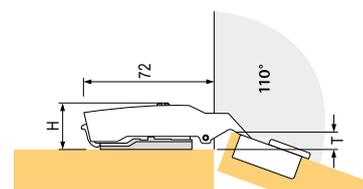


- recommended accessories: 105408 – cup cover cap (metal), 362244 – opening angle stop (110 ≥ 85°) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131

### Inset

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>308455</b>	9094290	8646i	Silent System/ Push to open Silent	screw	– 4	38	25
<b>399267</b>	9094291			for pressing-in			
<b>399268</b>	9094296			with expanding sockets			
<b>300474</b>	9094380	8646	without soft closing	screw			
<b>300475</b>	9094381			for pressing-in			
<b>300476</b>	9094386			with expanding sockets			
<b>346823</b>	9094470	8676	Push to open	screw			
<b>399316</b>	9094471			for pressing-in			
<b>399317</b>	9094476			with expanding sockets			



- recommended accessories: 105408 – cup cover cap (metal), 362244 – opening angle stop (110 ≥ 85°) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131

hinge height H, door protrusion T at distance D = 0 mm and cup distance C = 3 mm



## Hinges for door thickness 15–32 mm, 95° opening angle

### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>264196</b>	9090260	8631i	Silent System / Push to open Silent	screw	12.5	25	8.5
<b>264197</b>	9090261			for pressing-in			
<b>300447</b>	9090266			with expanding sockets			
<b>264221</b>	9090350	8631	without soft closing	screw			
<b>264222</b>	9090351			for pressing-in			
<b>300453</b>	9090356			with expanding sockets			
<b>264233</b>	9090440	8661	Push to open	screw			
<b>264234</b>	9090441			for pressing-in			
<b>300459</b>	9090446			with expanding sockets			



- recommended accessories: 105422 – arm cover cap without logo (metal), 105425 – arm cover cap with logo (metal), 300517 – arm cover cap without logo (plastic), 300518 – arm cover cap with logo (plastic), 105408 – cup cover cap (metal), 300521 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131

### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>264200</b>	9090270	8631i	Silent System / Push to open Silent	screw	3	31	18
<b>264201</b>	9090271			for pressing-in			
<b>264223</b>	9090360	8631	without soft closing	screw			



- recommended accessories: 105408 – cup cover cap (metal), 300521 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131

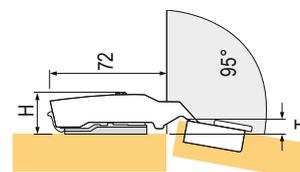
### Inset

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>264204</b>	9090280	8631i	Silent System / Push to open Silent	screw	– 4	38	25
<b>264225</b>	9090370	8631	without soft closing				
<b>264237</b>	9090460	8661	Push to open				



- recommended accessories: 105408 – cup cover cap (metal), 300521 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131



hinge height H, door protrusion T at distance  
D = 0 mm and cup distance C = 3 mm



## Hinges for door thickness 15–32 mm, 165° opening angle

### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>264246</b>	9099540	8657i	Silent System / Push to open Silent	screw	12.5	66	- 3
<b>264247</b>	9099541			for pressing-in			
<b>300477</b>	9099546			with expanding sockets			
<b>264266</b>	9099600	8657	without soft closing	screw	12.5	66	- 3
<b>264267</b>	9099601			for pressing-in			
<b>264278</b>	9099660	8687	Push to open	screw	12.5	66	- 3
<b>264279</b>	9099661			for pressing-in			
<b>300485</b>	9099666			with expanding sockets			



for recommended plates: see p. 1.131

### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>264251</b>	9099550	8657i	Silent System / Push to open Silent	screw	3	75.5	6.5
<b>264252</b>	9099551			for pressing-in			
<b>300478</b>	9099556			with expanding sockets			
<b>264269</b>	9099610	8657	without soft closing	screw	3	75.5	6.5
<b>264270</b>	9099611			for pressing-in			
<b>264281</b>	9099670	8687	Push to open	screw	3	75.5	6.5



for recommended plates: see p. 1.131

### Opening angle stop

code	Hettich code	description	angle
<b>264245</b>	9090756	opening angle limiter	105/120°
<b>300465</b>	9090864		90/135°



264245

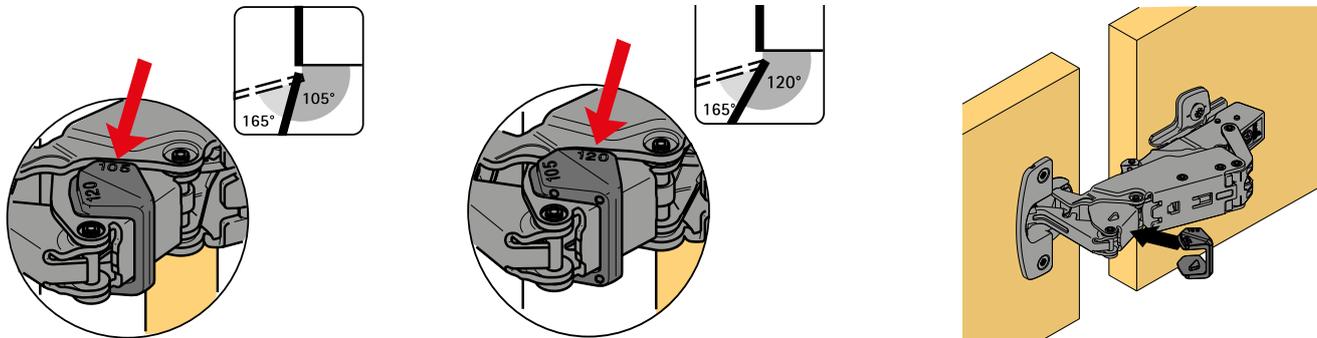


300465

### With an opening angle of 50/60°, for folding door

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>208857</b>	9090045	9930	with diagonal adjustment depending to the door thickness	screw	24	-	-




**Option A – holes for cups in one door**

- enables optimisation of the gap between the leaves to a minimum
- cup distance C is identical on both sides of the door
- both leaves may be equally wide
- space between the holes for the plate on the loose leaf is 37 mm
- for door thickness 16–21 mm

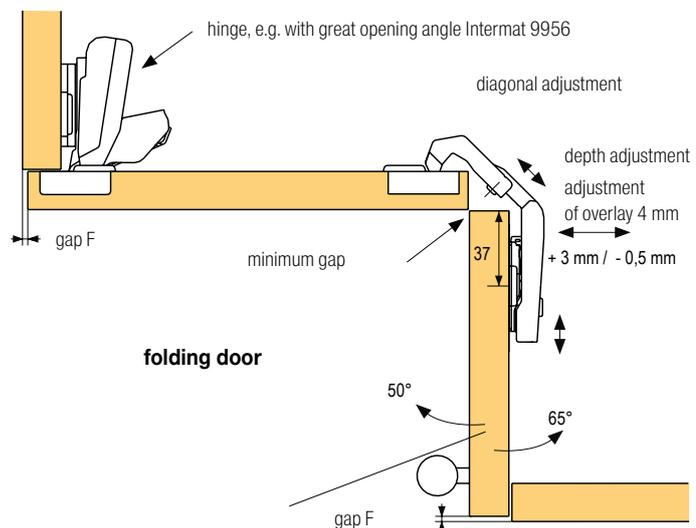
**Calculation of door width:**

- hole clearance for the door including the cabinet body side – gap F – door thickness

**Recommended height of the mounting plate <sup>1)</sup>**

- C = 4.5 mm: height of the plate D = 0
- C = 3.0 mm: height of the plate D = 1.5

<sup>1)</sup> different drilling C can be compensated by in-depth and diagonal adjustment

**Drawing – option A**

**Option B – holes for cups in both doors**

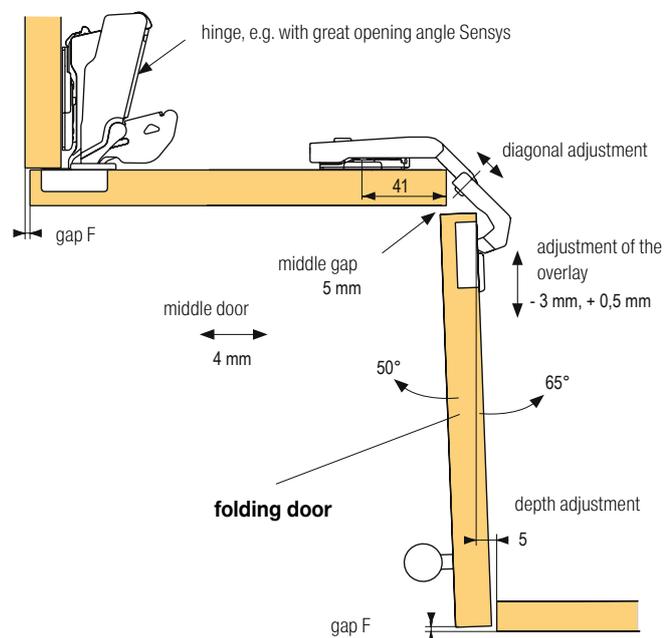
- gap between leaves 5 mm
- cup distance C identical for both doors
- both leaves may be equally wide
- space between the holes for the plate on the leaf is 41 mm
- for door thickness 16–21 mm

**Calculation of door width:**

- hole clearance for the door including the cabinet body side – gap F – door thickness – 5

**Recommended height of the mounting plate <sup>1)</sup>**

- C = 4.5 mm: height of the plate D = 0
- C = 3.0 mm: height of the plate D = 1.5

**Drawing – option B**




## Angled hinges for door thickness 15–28 mm

### 30°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>300327</b>	9088016	8639i	Silent System / Push to open Silent	screw	2
<b>300338</b>	9088034			for pressing-in	
<b>300362</b>	9088082			with expanding sockets	
<b>300374</b>	9088100	8639	without soft closing	screw	
<b>300380</b>	9088118			for pressing-in	
<b>300404</b>	9088176	8669	Push to open	screw	



- recommended accessories: 105408 – cup cover cap (metal), 300296 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)
- ☑ for recommended plates: see p. 1.131

### 30°, inset, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>300328</b>	9088017	8639i	Silent System / Push to open Silent	screw	– 16
<b>300338</b>	9088034			for pressing-in	
<b>300362</b>	9088082			with expanding sockets	
<b>300375</b>	9088101	8639	without soft closing	screw	
<b>300405</b>	9088177				



- recommended accessories: 105408 – cup cover cap (metal), 300296 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)
- ☑ for recommended plates: see p. 1.131

### 45°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>300329</b>	9088018	8639i	Silent System / Push to open Silent	screw	9
<b>300340</b>	9088036			for pressing-in	
<b>300364</b>	9088084			with expanding sockets	
<b>300376</b>	9088102	8639	without soft closing	screw	
<b>300407</b>	9088179				



- recommended accessories: 105408 – cup cover cap (metal), 300296 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)
- ☑ for recommended plates: see p. 1.131


**45°, half overlay, 95° opening angle**

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104801</b>	9088019	8639i	Silent System / Push to open Silent	screw	- 2
<b>300341</b>	9088037			for pressing-in	
<b>300365</b>	9088085			with expanding sockets	
<b>300377</b>	9088103	8639	without soft closing	screw	
<b>300383</b>	9088121			for pressing-in	
<b>300401</b>	9088157			with expanding sockets	
<b>300406</b>	9088178	8669	Push to open	screw	
<b>300412</b>	9088196			for pressing-in	



- recommended accessories: 105408 – cup cover cap (metal), 300296 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)
- ☑ for recommended plates: see p. 1.131

**45°, inset, 95° opening angle**

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>300331</b>	9088020	8639i	Silent System / Push to open Silent	screw	- 25
<b>300342</b>	9088038			for pressing-in	
<b>300366</b>	9088086			with expanding sockets	
<b>300378</b>	9088104	8639	without soft closing	screw	
<b>300384</b>	9088122			for pressing-in	
<b>300408</b>	9088180	8669	Push to open	screw	
<b>300414</b>	9088198			for pressing-in	



- recommended accessories: 105408 – cup cover cap (metal), 300296 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)
- ☑ for recommended plates: see p. 1.131

**90°, inset, 95° opening angle**

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104802</b>	9088021	8639i	Silent System/ Push to open Silent	screw	4
<b>300343</b>	9088039			for pressing-in	
<b>300367</b>	9088087			with expanding sockets	
<b>300379</b>	9088105	8639	without soft closing	screw	
<b>300403</b>	9088159			with expanding sockets	
<b>250871</b>	9088181	8669	Push to open	screw	
<b>300415</b>	9088199			for pressing-in	
<b>300433</b>	9088229			with expanding sockets	



- recommended accessories: 105408 – cup cover cap (metal), 300296 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)
- ☑ for recommended plates: see p. 1.131



## For doors made of thin aluminium frame

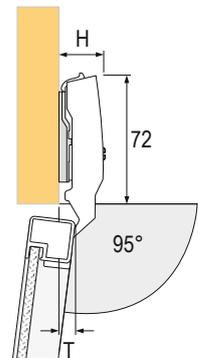
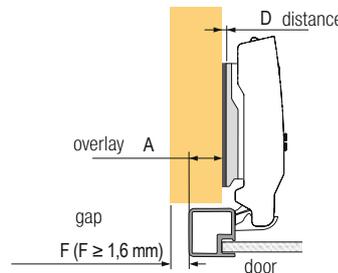
(8638i, 8638 a 8668)

code	Hettich code	description	B (mm)	H (mm)	T (mm)
<b>300279</b>	9072524	Full overlay with integrated soft closing Silent System	12.5	25.0	8.5
<b>300282</b>	9072527	full overlay without soft closing	3	31.0	18.0
<b>300285</b>	9072530	full overlay for handleless Push to open opening	- 4	38.0	25.0

for mounting plates, see p. 1.131

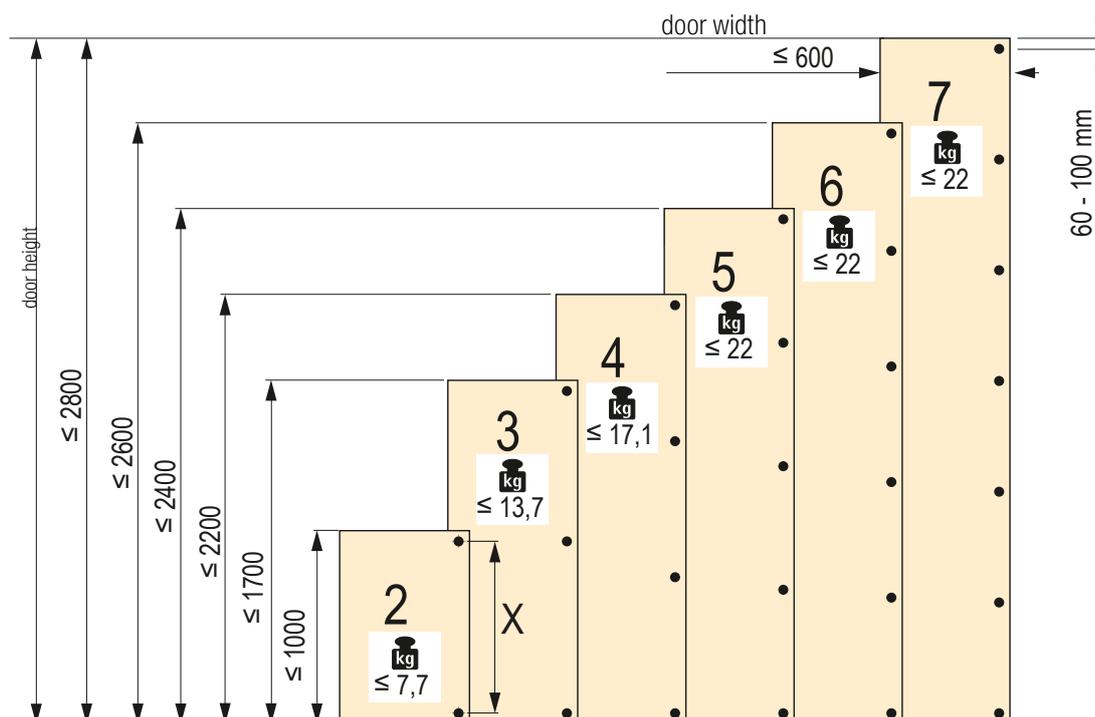


Select a suitable mounting plate (Distance D) according to the required overlay:  
 $D = 4.5 \text{ mm} + B - A$  (8638i, 8638 and 8668)



hinge height H, door protrusion T at distance D = 0 mm

Recommended number of hinges depending on the door height for all Sensys and Intermat hinges.





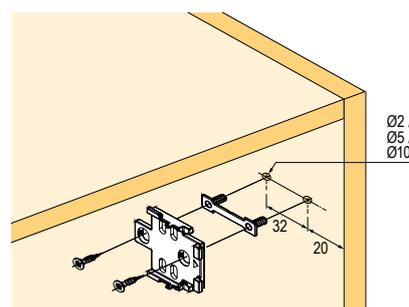
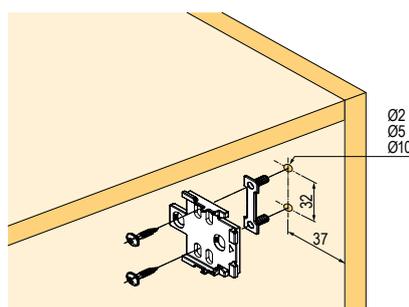
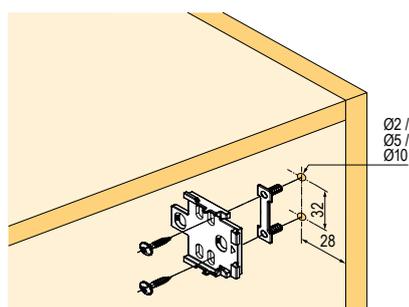
## **N** Push to open Silent mechanism for handleless opening

- for combination with damped automatic hinges to screw on
- wide adjustment range + 4 / - 2 mm
- including 4 AA batteries
- a mounting plate and screws are also included
- material: plastic



## Battery-powered mechanism for handleless door opening with classic hinges

code	Hettich code	colour
<b>362356</b>	9239088	white
<b>362355</b>	9239087	anthracite
<b>362357</b>	9239099	grey





# Sensys for glass application with integrated soft closing

## N Sensys for glass application with integrated soft closing

- with integrated soft closing system, self-closing spring for clip on mounting
- adapter for glue mounting (necessary for connecting the hinge and the glass)
- for use with UV hardening adhesive (not included)
- quality classification under EN 15570, Level 3
- for glass thickness 4–8 mm
- integrated adjustment of overlay + 2 mm, – 2 mm
- integrated in-depth adjustment + 3 mm, – 2 mm
- integrated height adjustment + 3 mm, – 3 mm



## Hinge 8645i 110°

code	Hettich code	package size (pcs)
<b>379953</b>	9135141	2
<b>379952</b>	3194990	50



- for use with adapter for glue mounting (must be ordered separately) including fixing screw
- mounting plate for glue mounting

## Hinge 8657i 165°

code	Hettich code	package size (pcs)
<b>379612</b>	9135140	2
<b>379611</b>	9134989	50



- for use with adapter for glue mounting (must be ordered separately) including fixing screw
- mounting plate for glue mounting
- in some cases it is necessary to use an opening angle stop to 135° - 300465 (see drawings on the next page)

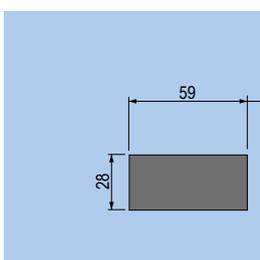
## Adapter for glue mounting

code	Hettich code	package size (pcs)
<b>379615</b>	9116092	2
<b>379614</b>	9116339	50



- for use with Sensys 8645i / 8657i for glass application
- bonding surface 28 × 59 mm
- Die-cast zinc, nickel plated

Glue mounting picture  
Adapter for glue mounting



K = distance from the edge  
- see examples of use

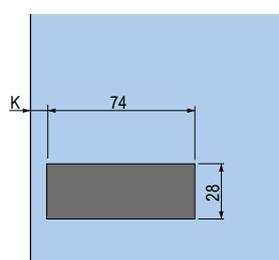
## Mounting plate for glue mounting

code	Hettich code	package size (pcs)
<b>379950</b>	9133536	2
<b>379949</b>	9133540	50



- bonding surface 28 × 74 mm
- Die-cast zinc, nickel plated

Glue mounting picture  
Mounting plate for glue mounting

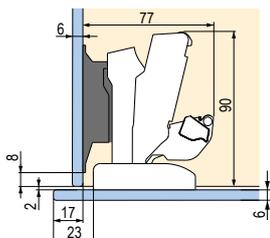




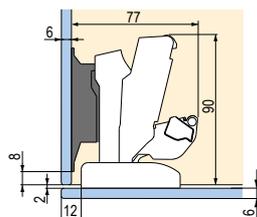
## Examples of use

### Application with door and cabinet body side in glass, full overlay door

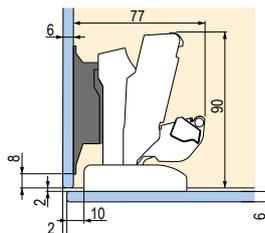
#### 135° opening angle



Full overlay door with door protrusion 11 mm



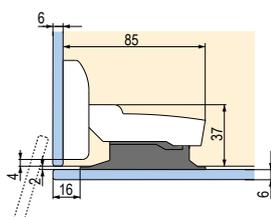
Full overlay door (no gap)



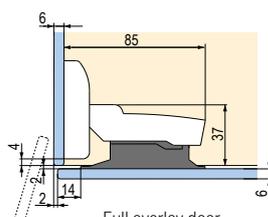
Full overlay door with gap 2 mm

### Application with door and cabinet body side in glass, full overlay door, mounting plate is fitted on the door

#### 110° opening angle



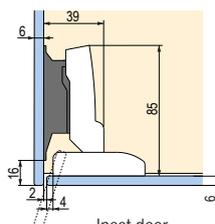
Full overlay door (no gap)



Full overlay door with gap 2 mm

### Application with door and cabinet body side in glass, inset door

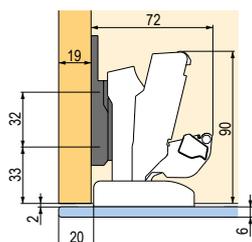
#### 110° opening angle



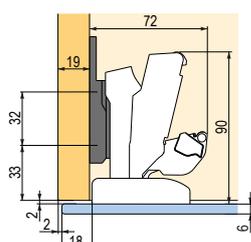
Inset door with gap 2 mm

### Application with door in glass and wooden cabinet body side, full overlay door

#### 135° opening angle



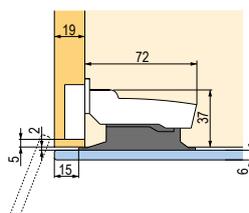
Full overlay door (no gap)



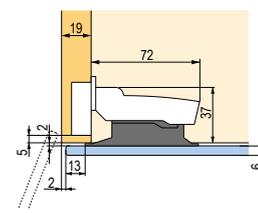
Full overlay door with gap 2 mm

### Application with door in glass and wooden cabinet body side, full overlay door, mounting plate is fitted on the door

#### 110° opening angle



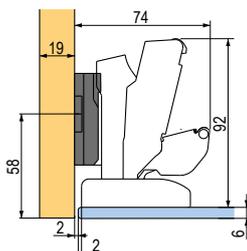
Full overlay door (no gap)



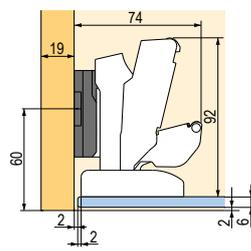
Full overlay door with gap 2 mm

### Application with door in glass and wooden cabinet body side, inset door

#### 165° opening angle



Inset door



Inset door with 2 mm offset



Obsidian black design



## Hinges for door thickness 15–24 mm

### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344691</b>	9091738	8645i	Silent System/Push to open Silent	screw	12.5	25	8.5
<b>344694</b>	9091741	8675	Push to open	for pressing-in			



- recommended accessories: 344733 – arm cover cap with logo (metal), 300517 – arm cover cap without logo (plastic), 300518 – arm cover cap with logo (plastic), 344734 – cup cover cap (metal), 207142 – opening angle stop (110 ≥ 85°) (for photo see p. 1.132)

🔗 for recommended plates: see p. 1.131

### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344692</b>	9091739	8645i	Silent System/Push to open Silent	screw	3	31	18
<b>344695</b>	9091742	8675	Push to open	for pressing-in			



- recommended accessories: 344734 – cup cover cap (metal), 207142 – opening angle stop (110 ≥ 85°) (for photo see p. 1.132)

🔗 for recommended plates: see p. 1.131

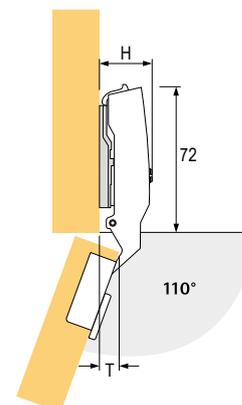
### Inset

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344693</b>	9091740	8645i	Silent System/Push to open Silent	screw	– 4	38	25
<b>344696</b>	9091743	8675	Push to open	for pressing-in			



- recommended accessories: 344734 – cup cover cap (metal), 207142 – opening angle stop (110 ≥ 85°) (for photo see p. 1.132)
- mounting on the plate by clipping-on
- drilling diameter for a 35 mm cup, drilling pitch for mounting screws/dowels 52 mm
- cup depth 12.8 (7.8) mm
- integrated adjustment of overlay ± 2 mm
- integrated depth adjustment + 3 / – 2 mm
- cup and arm nickel-plated steel

🔗 for recommended plates: see p. 1.131



hinge height H, door protrusion T at distance 0 mm and cup distance C 3 mm



## Hinges for door thickness 10–16 mm

### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344712</b>	9091761	8646i	Silent System / Push to open Silent	screw	12.5	25	8.5
<b>344715</b>	9091764	8676	Push to open	for pressing-in			

- recommended accessories: 344733 – arm cover cap with logo (metal), 300517 – arm cover cap without logo (plastic), 300518 – arm cover cap with logo (plastic), 344734 – cup cover cap (metal), 362244 – opening angle stop ( $110 \geq 85^\circ$ ) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131



### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344713</b>	9091762	8646i	Silent System / Push to open Silent	screw	3	31	18
<b>344716</b>	9091765	8676	Push to open	for pressing-in			

- recommended accessories: 344734 – cup cover cap (metal), 362244 – opening angle stop ( $110 \geq 85^\circ$ ) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131



### Inset

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344714</b>	9091763	8646i	Silent System / Push to open Silent	screw	– 4	38	25
<b>344717</b>	9091766	8676	Push to open	for pressing-in			

- recommended accessories: 344734 – cup cover cap (metal), 362244 – opening angle stop ( $110 \geq 85^\circ$ ) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131



## Hinges for door thickness 15–32 mm

### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344706</b>	9091753	8631i	Silent System/Push to open Silent	screw	12.5	25	8.5
<b>344709</b>	9091758	8661	Push to open	for pressing-in			

- recommended accessories: 344733 – arm cover cap with logo (metal), 300517 – arm cover cap without logo (plastic), 300518 – arm cover cap with logo (plastic), 344734 – cup cover cap (metal), 300521 – opening angle stop ( $95 \geq 85^\circ$ )

☑ for recommended plates: see p. 1.131



### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344707</b>	9091755	8631i	Silent System / Push to open Silent	screw	3	31	18
<b>344710</b>	9091759	8661	Push to open	for pressing-in			

- recommended accessories: 344734 – cup cover cap (metal), 300521 – opening angle stop ( $95 \geq 85^\circ$ )

☑ for recommended plates: see p. 1.131



### Inset

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344708</b>	9091756	8631i	Silent System / Push to open Silent	screw	– 4	38	25
<b>344711</b>	9091760	8661	Push to open	for pressing-in			

- recommended accessories: 344734 – cup cover cap (metal), 300521 – opening angle stop ( $95 \geq 85^\circ$ ) (for photo see p. 1.132)

☑ for recommended plates: see p. 1.131





## Hinges for door thickness 15–32 mm, 165° opening angle

### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344718</b>	9091767	8657i	Silent System / Push to open Silent	screw	12.5	66	- 3
<b>344720</b>	9091769	8687	Push to open	for pressing-in			



for recommended plates: see p. 1.131

### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>344719</b>	9091768	8657i	Silent System / Push to open Silent	screw	3	75.5	6.5
<b>344721</b>	9091770	8687	Push to open	for pressing-in			



for recommended plates: see p. 1.131

### Opening angle stop

code	Hettich code	description	angle
<b>264245</b>	9090756	opening angle limiter	105/120°
<b>300465</b>	9090864		90/135°



264245

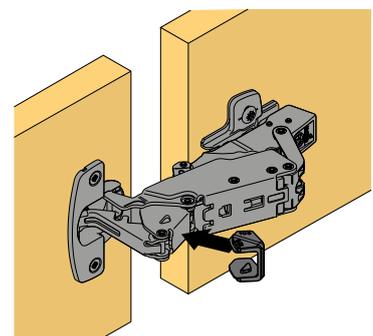
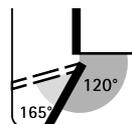
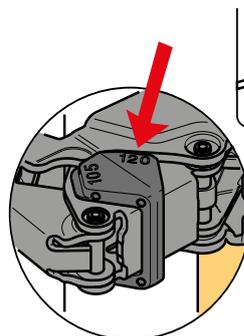
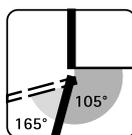
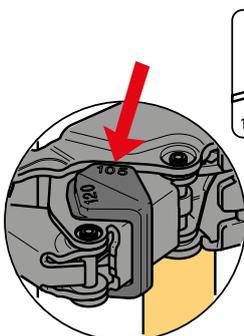
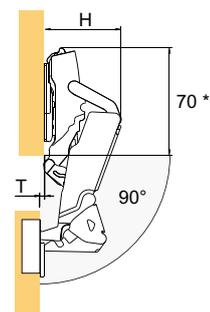
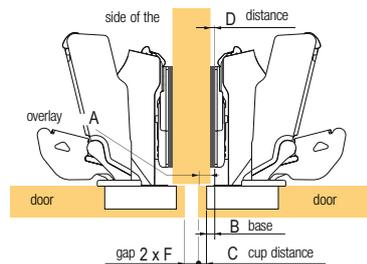
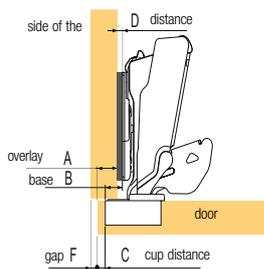


300465

for black mounting screws 309046 see p. 7.16

for mounting plates see p. 1.131

Push to open pins on p. 1.144





## Angled hinges for door thickness 15–28 mm

### 30°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>344698</b>	9091745	8639i	Silent System / Push to open Silent	screw	2
<b>344702</b>	9091749	8669	Push to open	screw	



- recommended accessories: 344734 – cup cover cap (metal), 300296 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)
- ☑ for recommended plates: see p. 1.131

### 45°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>344699</b>	9091746	8639i	Silent System / Push to open Silent	screw	9
<b>344703</b>	9091750	8669	Push to open	screw	



- recommended accessories: 344734 – cup cover cap (metal), 300296 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)
- ☑ for recommended plates: see p. 1.131

### 45°, half overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>344700</b>	9091747	8639i	Silent System/ Push to open Silent	screw	– 2
<b>344704</b>	9091751	8669	Push to open	screw	



- recommended accessories: 344734 – cup cover cap (metal), 300296 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)
- ☑ for recommended plates: see p. 1.131

### 90°, inset, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>344701</b>	9091748	8639i	Silent System / Push to open Silent	screw	4
<b>344705</b>	9091752	8669	Push to open	screw	



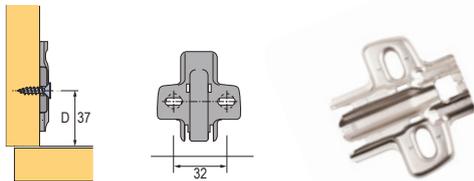
- recommended accessories: 344734 – cup cover cap (metal), 300296 – opening angle stop (95 ≥ 85°) (for photo see p. 1.132)
- for recommended plates: see p. 1.131



## Mounting plates for Sensys and Intermat hinges

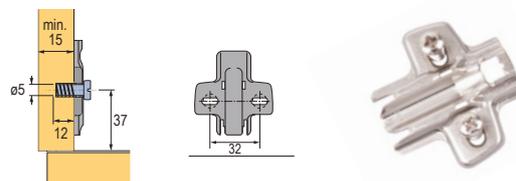
### Cruciform, mounting by screws

nickel	Hettich code	distance D (mm)
<b>128312</b>	9071575	0
<b>106403</b>	9071576	1.5
<b>118057</b>	9071577	3
<b>106405</b>	9071578	5



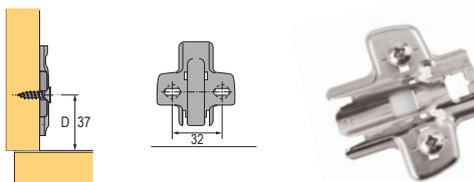
### Cruciform, mounting by pre-mounted euro screws

nickel	Hettich code	distance D (mm)
<b>119302</b>	9071625	0
<b>119240</b>	9071626	1.5
<b>154410</b>	9071627	3
<b>186174</b>	9071628	5



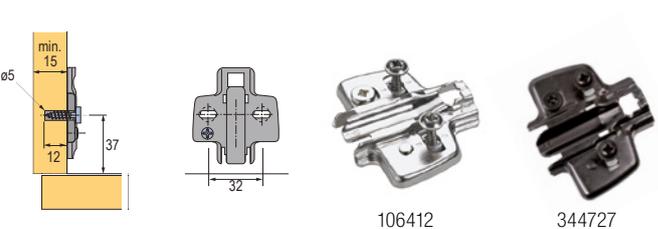
### Cruciform, mounting by screws with special split dowels

nickel	Hettich code	distance D (mm)
<b>186172</b>	9071595	0
<b>106453</b>	9071597	3
<b>186173</b>	9071598	5



### Cruciform with a cam for adjustment, mounting by screws with special split dowels

nickel	Hettich code	distance D (mm)	obsidian	Hettich code
<b>106406</b>	9071655	0	<b>344726</b>	9091811
<b>106412</b>	9071656	1.5	<b>344727</b>	9091812
<b>106413</b>	9071657	3	<b>344728</b>	9091813
<b>106414</b>	9071658	5	<b>344729</b>	9091814

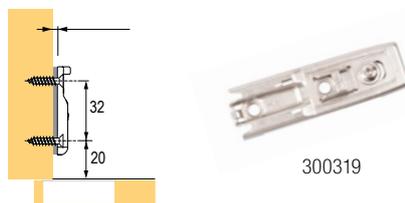


☑ for black mounting screws 309046 see p. 7.16

### Linear (with a cam for adjustment), mounting by screws

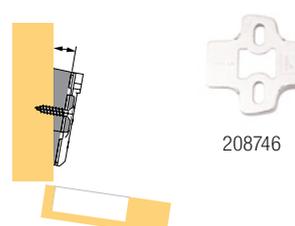
nickel	Hettich code	distance D (mm)
<b>300319</b>	9075095	1.5
<b>300320</b>	9075096	3
<b>300321</b>	9075097	5

☑ for black mounting screws 309046 see p. 7.16



### Wedge for fine adjustment of specific overlay angles, mounting under the plate

nickel	Hettich code	angle (°)
<b>208746</b>	9072533	5
<b>208747</b>	9072534	10
<b>300290</b>	9072535	15
<b>300291</b>	9072536	20





## Accessories for Sensys hinges

### Cover caps

code	Hettich code	description	material
<b>105422</b>	9088249	arm, full overlay, without logo	nickel
<b>105425</b>	9088250	arm, full overlay, with logo	nickel
<b>344733</b>	9091821	arm, full overlay, with logo	obsidian
<b>300517</b>	9099870	arm, full overlay, without logo	PVC
<b>300518</b>	9099871	arm, full overlay, with logo	PVC
<b>105408</b>	9088251	bowl	nickel
<b>344734</b>	9091822	bowl	obsidian



105422


 300517  
300518


105408



344734

### Opening angle stop

code	Hettich code	description	material
<b>207142</b>	9072540	110° ≥ 85°, standard, Silent System	PVC
<b>362244</b>	9076440	110° ≥ 85°, thin door, Silent System	PVC
<b>300296</b>	9072541	95° ≥ 85°, angled, Silent System	PVC
<b>300297</b>	9072542	95° ≥ 85°, aluminium frame, Silent System	PVC
<b>300521</b>	9103006	95° ≥ 85°, thick door, Silent System	steel
<b>264245</b>	9090756	165° ≥ 120°/105°	PVC
<b>300465</b>	9090864	165° ≥ 90°/135°	PVC



207142



362244



300296



264245



300465

### Other accessories

code	Hettich code	description	material
<b>288354</b>	9100037	damper of opening for hinge 165°	PVC

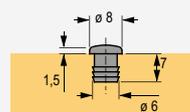
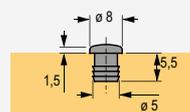


288354

## Common accessories for Sensys and Intermat hinges

### Door damper for driving-in

code	Hettich code	description
<b>107792</b>	9079298	transparent
<b>107842</b>	25048	white
<b>119104</b>	47353	beige
<b>119029</b>	21154	brown



### Cover cap for hole 35 mm in diameter

code	Hettich code	description
<b>105337</b>	25204	white
<b>105341</b>	25205	brown

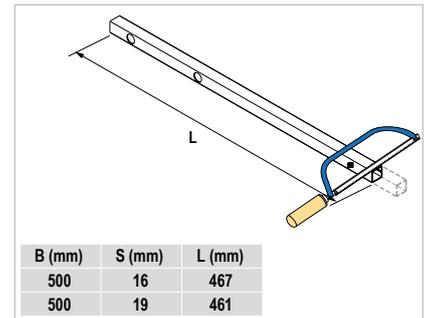
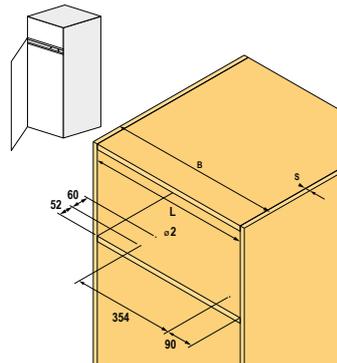
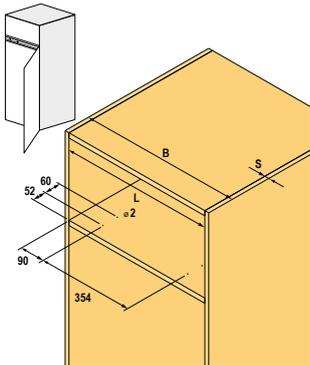
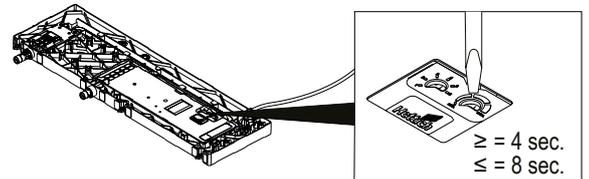
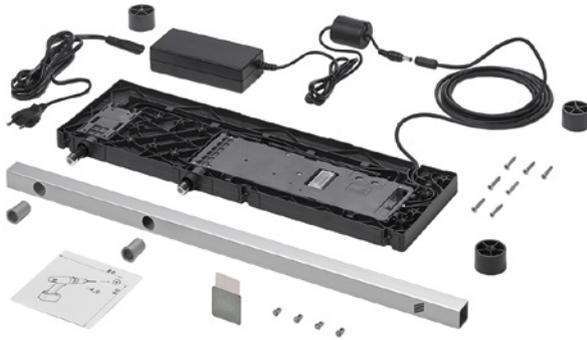




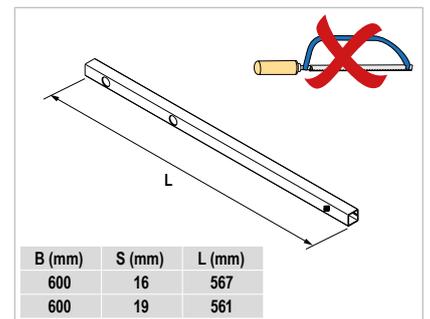
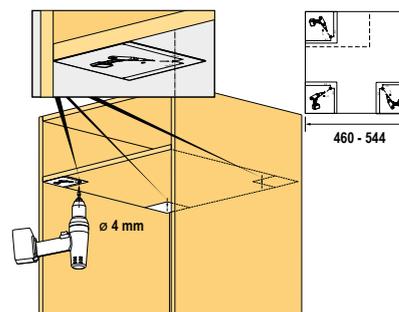
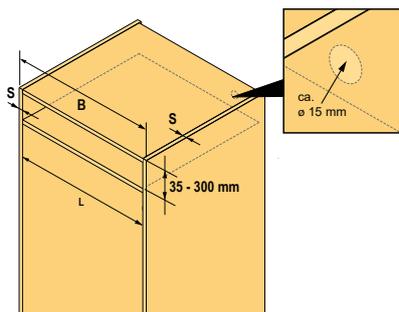
## Handleless opening for refrigerators

code	Hettich code	description
<b>311978</b>	9210848	set including a transformer and a supply cable

- Easys is an electromechanical system for opening refrigerator door that is built into the cabinet body. It can also be used for dishwashers.
- the functional unit contains a sensor that responds to motion caused by pressure on the door
- the door opens for 4–8 seconds, so you can open it with your hand completely
  - Easys is supplied as one complete universal set, i.e. a single ordering number for cabinet body width 50 to 60 cm, for left and right doors, regardless of side thickness
  - the unit is usually mounted above the refrigerator, but can also be placed under the refrigerator
  - the unit is screwed onto the shelf and can be covered with another shelf
  - the user only sees the front cover strip, sensor, and piston



ⓘ the required height is only 22 mm!





# Overview of hinge types



## Intermat – nickel-plated steel



**For door thickness 15–25 mm,**  
with and without self-closing  
spring for handleless  
Push to open opening.  
See page: 1.135



**Hinges for thick doors,**  
with self-closing spring and  
without spring for handleless  
Push to open opening.  
See page: 1.136 and 1.141



**With 165° opening angle and a zero  
protrusion to the clear inside dimen-  
sion,** with and without self-closing  
spring for handleless  
Push to open opening.  
See page: 1.137



**Angled hinges (plus values),**  
with and without self-closing  
spring for handleless  
Push to open opening.  
See page: 1.138–1.140



**Angled hinges (minus values),**  
with and without self-closing  
spring for handleless  
Push to open opening.  
See page: 1.140



**Mini hinges, hinges for furniture  
with a frame construction,**  
with self-closing spring.  
See page: 1.141



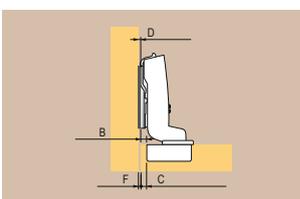
**Hinges for drilled glass doors,  
hinges for furniture with a frame  
construction,** with self-closing  
spring. See page: 1.142



**External dampers.**  
See page: 1.143



**Push to open pins for handleless  
opening.**  
See page: 1.144



**Tables for planning hinges  
Sensys and Intemat.**  
See page: 1.146



## Hinges for door thickness 15–25 mm, 110° opening angle

### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>104189</b>	48049	9943	without soft closing	screw	12.5	19.5	7.5
<b>104192</b>	48053			for pressing-in			
<b>300567</b>	9043358			with expanding sockets			
<b>288349</b>	9043361	9973	Push to open	screw	12.5	19.5	7.5
<b>300775</b>	9072563			for pressing-in			
<b>300778</b>	9072569			with expanding sockets			



- recommended accessories: 105363 – arm cover cap without logo (metal), 208689 – arm cover cap with logo (metal), 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors), 104338 – external Silent System damper for clipping onto the arm, 185695 – opening angle stop (110 ≥ 85°)

for recommended plates: see p. 1.131

### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>104190</b>	48051	9943	without soft closing	screw	3	29	17
<b>184638</b>	48054			for pressing-in			
<b>288350</b>	9043362	9973	Push to open	screw	3	29	17



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors), 185695 – opening angle stop (110 ≥ 85°)

for recommended plates: see p. 1.131

### Inset

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>104191</b>	48052	9943	without soft closing	screw	– 3.5	35.5	23.5
<b>185318</b>	48056			for pressing-in			
<b>300569</b>	9043360			with expanding sockets			
<b>288351</b>	9043363	9973	Push to open	screw	– 3.5	35.5	23.5
<b>300780</b>	9072571			with expanding sockets			



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup

for recommended plates: see p. 1.131



## Intermat, 125° opening angle

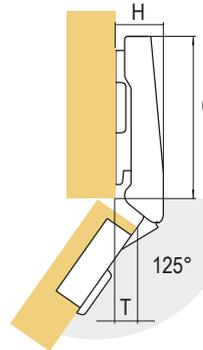
- mounting on the plate by clipping-on
- drilling diameter for a 35 mm cup, drilling pitch for mounting screws/dowels 52 mm
- integrated adjustment of overlay  $\pm 2$  mm
- integrated depth adjustment  $+ 2.5 / - 1.5$  mm
- height adjustment with a mounting plate
- cup and arm nickel-plated steel

☑ for mounting plates, see p. 1.131

### For door thickness of 15–28 mm

#### Without integrated soft closing (9944)

code	Hettich code	description	B (mm)	H (mm)	T (mm)
<b>104527</b>	73905	full overlay	12.5	19.5	8.5
<b>107395</b>	73909	half overlay	3	29.0	18.0



☑ for recommended plates: see p. 1.131

- recommended accessories: 105363 – arm cover cap without logo (metal), 208689 – arm cover cap with logo (metal), 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors), 104338 – external Silent System damper for clipping onto the arm, 185695 – opening angle stop ( $110 \geq 85^\circ$ )

## Hinges for door thickness 14–32 mm, 95° opening angle

#### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>104529</b>	73913	9936	without soft closing	screw	12.5	19.5	10
<b>104904</b>	73914			for pressing-in			
<b>300630</b>	9043586			with expanding sockets			
<b>300704</b>	9044858	9966	Push to open	screw	12.5	19.5	10
<b>300615</b>	9043564			for pressing-in			
<b>300618</b>	9043567			with expanding sockets			



☑ for recommended plates: see p. 1.131

- recommended accessories: 105363 – arm cover cap without logo (metal), 208689 – arm cover cap with logo (metal), 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors), 104338 – external Silent System damper for clipping onto the arm

#### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>104530</b>	73917	9936	without soft closing	screw	3	29	19.5
<b>185004</b>	73918			for pressing-in			
<b>300631</b>	9043587			with expanding sockets			
<b>300710</b>	9044868	9966	Push to open	screw	3	29	19.5
<b>300616</b>	9043565			for pressing-in			
<b>300619</b>	9043568			with expanding sockets			



☑ for recommended plates: see p. 1.131

- recommended accessories: 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (overlay and half overlay doors)

#### Inset

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>104531</b>	73921	9936	without soft closing	screw	– 3.5	35.5	26
<b>185007</b>	73922			for pressing-in			
<b>300716</b>	9044878	9966	Push to open	screw	– 3.5	35.5	26
<b>300617</b>	9043566			for pressing-in			
<b>300620</b>	9043569			with expanding sockets			



☑ for recommended plates: see p. 1.131

- recommended accessories: 104343 – external Silent System damper for clipping onto the cup



## Hinges for door thickness 15–32 mm, 165° opening angle

### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>288352</b>	9099750	8657	without soft closing	screw	12.5	66	- 3
<b>300489</b>	9099751			for pressing-in			
<b>300491</b>	9099756			with expanding sockets			
<b>298415</b>	9099810	8687	Push to open	screw	12.5	66	- 3
<b>300504</b>	9099816			with expanding sockets			



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors)

☑ for recommended plates: see p. 1.131

### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>288353</b>	9099760	8657	without soft closing	screw	3	75.5	6.5
<b>300492</b>	9099761			for pressing-in			
<b>300494</b>	9099766			with expanding sockets			
<b>300505</b>	9099820	8687	Push to open	screw	3	75.5	6.5
<b>300506</b>	9099821			for pressing-in			
<b>300508</b>	9099826			with expanding sockets			



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors)

☑ for recommended plates: see p. 1.131

### Opening angle stop

code	Hettich code	description	angle
<b>264245</b>	9090756	opening angle limiter	105/120°
<b>300465</b>	9090864		90/135°



264245



300465

### With an opening angle of 50/60°, for folding door

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>208857</b>	9090045	9930	with diagonal adjustment depending to the door thickness	screw	24	-	-





## Angled hinges for door thickness 14–32 mm

### 20°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104570</b>	77644	9936	without soft closing	screw	7
<b>141412</b>	77680			for pressing-in	
<b>300645</b>	9043664			with expanding sockets	



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors)

for recommended plates: see p. 1.131

### 20°, inset, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104571</b>	77645	9936	without soft closing	screw	– 9
<b>185152</b>	77682			for pressing-in	
<b>300646</b>	9043665			with expanding sockets	



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup

for recommended plates: see p. 1.131

### 30°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104572</b>	77690	9936	without soft closing	screw	7
<b>185158</b>	77691			for pressing-in	
<b>300647</b>	9043666			with expanding sockets	
<b>300679</b>	9044826	9966	Push to open	screw	7
<b>300670</b>	9043758			with expanding sockets	



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors)

for recommended plates: see p. 1.131

### 30°, inset, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104535</b>	73928	9936	without soft closing	screw	– 10
<b>185010</b>	73929			for pressing-in	
<b>300648</b>	9043667			with expanding sockets	
<b>300682</b>	9044829	9966	Push to open	screw	– 10
<b>300588</b>	9043390			for pressing-in	
<b>300671</b>	9043759			with expanding sockets	



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup

for recommended plates: see p. 1.131



### 45°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104199</b>	48096	9936	without soft closing	screw	0
<b>184644</b>	48907			for pressing-in	
<b>300649</b>	9043668			with expanding sockets	
<b>300685</b>	9044832	9966	Push to open	screw	
<b>300592</b>	9043394			for pressing-in	
<b>300672</b>	9043760			with expanding sockets	



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors)

☑ for recommended plates: see p. 1.131

### 45°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104573</b>	77699	9936	without soft closing	screw	6
<b>104810</b>	77700			for pressing-in	
<b>300650</b>	9043669			with expanding sockets	
<b>300688</b>	9044835	9966	Push to open	screw	
<b>300673</b>	9043761			with expanding sockets	



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors)

☑ for recommended plates: see p. 1.131

### 45°, inset, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104536</b>	73932	9936	without soft closing	screw	– 17
<b>185012</b>	73933			for pressing-in	
<b>300691</b>	9044838	9966	Push to open	screw	
<b>300604</b>	9043405			with expanding sockets	



- recommended accessories: 104343 – external Silent System damper for clipping onto the cup

☑ for recommended plates: see p. 1.131



## Angled hinges for door thickness 14–28 mm

### 90°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>300697</b>	9044844	9936	without soft closing	screw	22
<b>300698</b>	9044845			for pressing-in	
<b>300668</b>	9043756			with expanding sockets	
<b>300608</b>	9043556	9966	Push to open	screw	
<b>399349</b>	9043557			for pressing-in	
<b>300610</b>	9043559			with expanding sockets	



- recommended accessories: 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors)
- ☑ for recommended plates: see p. 1.131

### 90°, inset, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104574</b>	77708	9936	without soft closing	screw	5
<b>105804</b>	77709			for pressing-in	
<b>300652</b>	9043672			with expanding sockets	
<b>300694</b>	9044841	9966	Push to open	screw	
<b>399399</b>	9044821			for pressing-in	
<b>300675</b>	9043763			with expanding sockets	



- ☑ for recommended plates: see p. 1.131

### – 30°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104537</b>	73936	9944	without soft closing	screw	12
<b>208557</b>	73937			for pressing-in	
<b>300752</b>	9044976			with expanding sockets	



- recommended accessories: 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors)
- ☑ for recommended plates: see p. 1.131

### – 45°, full overlay, 95° opening angle

code	Hettich code	series of hinges	description	cup mounting	B (mm)
<b>104569</b>	77643	9944	without soft closing	screw	10
<b>97906</b>	77721			for pressing-in	
<b>300755</b>	9044981			with expanding sockets	



- recommended accessories: 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors)
- ☑ for recommended plates: see p. 1.131



## Hinges for door thickness 16–43 mm, 95° opening angle

### Full overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>300804</b>	9155241	9935	without soft closing	screw	18	20	10.5

- recommended accessories: 105363 – arm cover cap without logo (metal), 208689 – arm cover cap with logo (metal), 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (full overlay and half overlay doors), 104338 – external Silent System damper for clipping onto the arm

☑ for recommended plates: see p. 1.131



### Half overlay

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>300805</b>	9155242	9935	without soft closing	screw	8	30	20.5

- recommended accessories: 104343 – external Silent System damper for clipping onto the cup, 104346 – external damper with adapter for screwing into the cabinet body (overlay and half overlay doors)

☑ for recommended plates: see p. 1.131



### Inset

code	Hettich code	series of hinges	description	cup mounting	B (mm)	H (mm)	T (mm)
<b>300806</b>	9155243	9935	without soft closing	screw	- 3	41	31.5

- recommended accessories: 104343 – external Silent System damper for clipping onto the cup

☑ for recommended plates: see p. 1.131

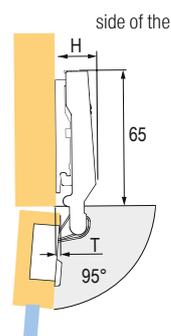


## Intermat, mini hinges and hinges for drilled glass doors, 95° opening angle

### Mini hinges for door thickness 15–25 mm (9924)

code	Hettich code	description	B (mm)	H (mm)	T (mm)
<b>104491</b>	72959	full overlay	11	19	4.2
<b>104494</b>	72965	half overlay	2.5	23	12.7
<b>104495</b>	72966	inset	- 4	29.5	19.2

☑ for mounting plates, see p. 1.131



104491



104494



104495

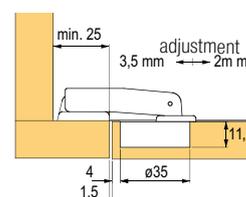
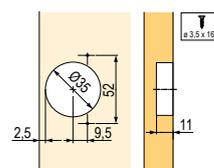


## Hinges for furniture with frame construction

### Perfekt 90° (blind corner)

code	Hettich code	description
<b>104391</b>	69603	inset

Minimum gap (F) between individual doors						
door thickness (mm)	cup distance (C)					
	3	4	4.5	5	6	
16	0.3	0.3	0.3	0.3	0.3	
18	0.5	0.5	0.5	0.5	0.5	
19	0.6	0.6	0.6	0.6	0.6	
22	1.2	1.2	1.2	1.2	1.1	

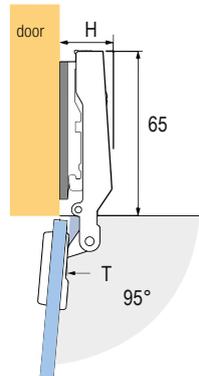




## Hinges for drilled glass doors thickness 4–6.5 mm (9904)

code	Hettich code	description	B (mm)	H (mm)	T (mm)
<b>104492</b>	72960	full overlay	11	19	4
<b>104496</b>	72967	half overlay	2.5	23	12.5
<b>104497</b>	72968	inset	- 4	29.5	19

☑ for mounting plates, see p. 1.131



### Cover caps with counterparts for drilled glass door hinges

code	Hettich code	surface	tvar
<b>105371</b>	40341	chrome	0
<b>105372</b>	70712	matt nickel	
<b>105376</b>	40340	gold-coated	
<b>105369</b>	70051	black	D
<b>105383</b>	40495	chrome	
<b>105384</b>	70713	matt nickel	
<b>105386</b>	40494	gold-coated	
<b>105379</b>	70052	black	

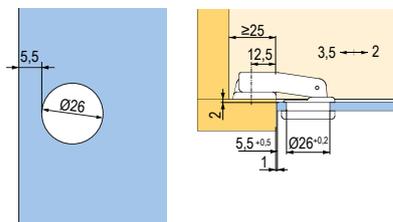
• hinges are also supplied with a plate



## Hinges for furniture with frame construction

### Perfekt 90° (blind corner)

code	Hettich code	description
<b>104393</b>	69607	inset



### Optimat Plus

code	Hettich code	description
<b>308098</b>	9072548	full overlay

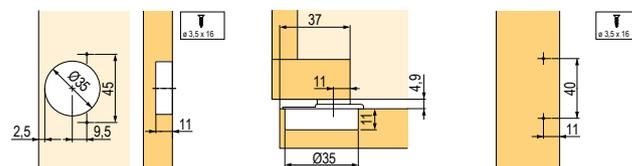


plate drilling pattern



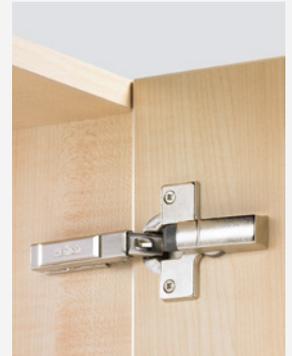


**ACCESSORIES FOR INTERMAT HINGES**

**For clipping onto the hinge body**

code	Hettich code	description
<b>104338</b>	60576	for clipping onto the arm, full overlay
<b>104343</b>	60581	for clipping onto on the cup

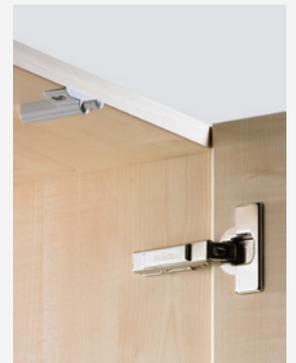
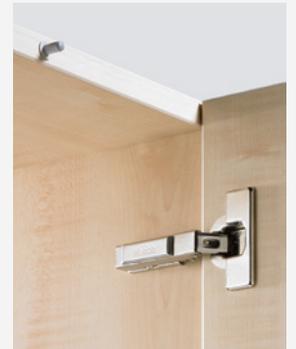
- dampers for full overlay doors
- damper for clipping onto the arm can be used only for hinges with straight arm
- soft closing can be controlled by the adjustment wheel



**To be installed away from the hinge**

code	Hettich code	description
<b>104341</b>	60579	for screwing-on, for full overlay and half overlay doors, with the possibility to adjust the soft closing force
<b>107839</b>	60685	for drilling-in, for full overlay and half overlay doors
<b>104346</b>	60687	for screwing-on, for full overlay and half overlay doors

- mounting by screwing on the base or the top, or drilling-in into the edge
- the metal damper for screwing on the hinge side can be controlled by the adjustment wheel



**ACCESSORIES FOR INTERMAT HINGES**

**Cover caps**

code	Hettich code	description	material
<b>105363</b>	9101552	arm, full overlay, without logo	nickel
<b>208689</b>	9102082	arm, full overlay, with logo	nickel



**Opening angle stop**

code	Hettich code	description	material
<b>185695</b>	9040835	110° ≥ 85°, standard	PVC



# K-PUSH mechanisms



## Handleless opening K-PUSH

- system for handleless door opening
- two lengths, white and grey design
- drilling or adapters option
- high quality, reliability, functionality
- possible combination with lifts (extra strong version, 37 mm)



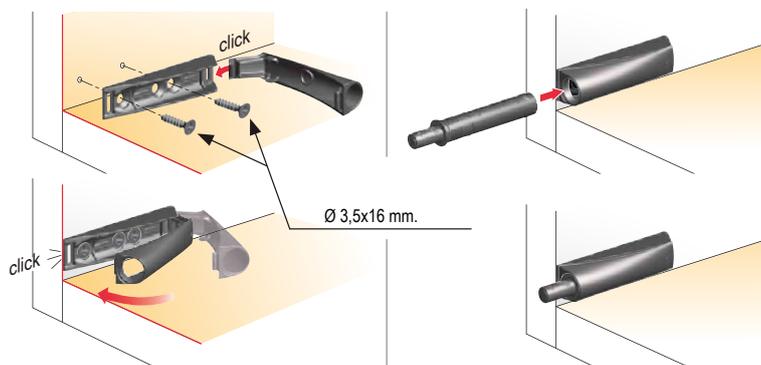
### K-push sets with adapter

code	type	output path length (mm)	force	colour
<b>227072</b>	with buffer	37	normal	grey
<b>349997</b>				white
<b>227074</b>			extra strong	grey
<b>349998</b>				white
<b>227066</b>	14	normal	grey	
<b>349996</b>			white	
<b>227078</b>	with magnet	37	normal	grey
<b>350000</b>				white
<b>227080</b>			extra strong	grey
<b>350001</b>				white
<b>227076</b>		14	normal	grey
<b>349999</b>				white

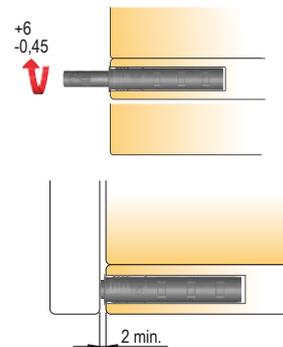


 suitable in combination with unsprung hinges

Set with adapter



(mounting on cabinet body)



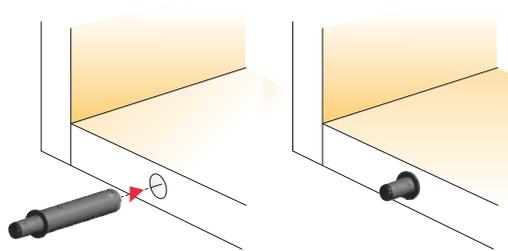
adjustment of the gap between the door and the cabinet body



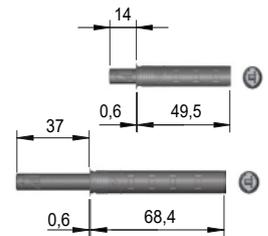
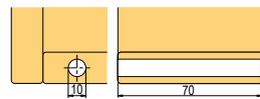
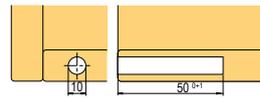
# K-PUSH mechanisms

## K-push sets for drilling-in

code	type	output path length (mm)	force	colour
<b>227073</b>	with buffer	37	normal	grey
<b>227075</b>			extra strong	
<b>227071</b>	with magnet	14	normal	
<b>227079</b>			extra strong	
<b>227081</b>		37	normal	
<b>227077</b>			extra strong	
		14	normal	



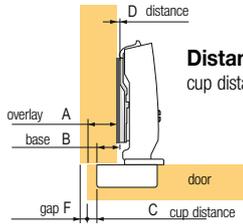
set for drilling-in



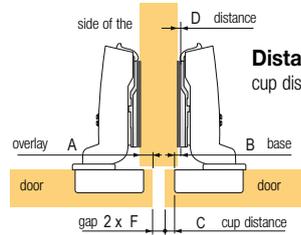
# tables for planning Hettich hinges



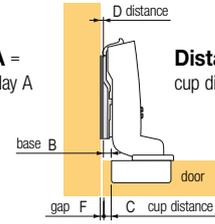
**Table for plate height determination (D) when the overlay size or thickness of the door and the drilling distance of the hole for the cup from the door's edge are known.**



**Distance D = C + B - A =**  
cup distance C + 12.5 mm - overlay A



**Distance D = C + B - A =**  
cup distance C + 3 mm - overlay A



**Distance D = C + B - A =**  
cup distance C + 4 mm - gap F

For door thickness 15–24 mm (8645i, 8645 and 8675)

Full overlay (D = C + B - A)		cup distance (C)					
height of the plate (D) <sup>1)</sup> (mm)		3	4	4.5	5	6	7
overlay (A) (mm)	10	5.5	6.5	7.0	7.5	8.5	9.5
	11	4.5	5.5	6.0	6.5	7.5	8.5
	12	3.5	4.5	5.0	5.5	6.5	7.5
	13	2.5	3.5	4.0	4.5	5.5	6.5
	14	1.5	2.5	3.0	3.5	4.5	5.5
	15	0.5	1.5	2.0	2.5	3.5	4.5
	16		0.5	1.0	1.5	2.5	3.5
	17			0.0	0.5	1.5	2.5
	18					0.5	1.5
	19						0.5

Half overlay (D = C + B - A)		cup distance (C)					
height of the plate (D) <sup>1)</sup> (mm)		3	4	4.5	5	6	7
overlay (A) (mm)	0.5	5.5	6.5	7.0	7.5	8.5	9.5
	1.5	4.5	5.5	6.0	6.5	7.5	8.5
	2.5	3.5	4.5	5.0	5.5	6.5	7.5
	3.5	2.5	3.5	4.0	4.5	5.5	6.5
	4.5	1.5	2.5	3.0	3.5	4.5	5.5
	5.5	0.5	1.5	2.0	2.5	3.5	4.5
	6.5		0.5	1.0	1.5	2.5	3.5
	7.5			0.0	0.5	1.5	2.5
	8.5					0.5	1.5
	9.5						0.5

Inset (D = C + B + F)		cup distance (C)					
door thickness (mm)		3	4	4.5	5	6	7
door thickness (mm)	15		0.2	0.7	1.2	2.2	3.2
	16		0.3	0.8	1.3	2.3	3.3
	17		0.4	0.9	1.4	2.4	3.4
	18		0.6	1.1	1.6	2.6	3.5
	19		0.8	1.3	1.8	2.7	3.7
	20	0.1	1.0	1.5	2.0	3.0	3.9
	21	0.4	1.3	1.8	2.3	3.2	4.2
	22	1.2	1.8	2.2	2.6	3.6	4.5
	23	2.0	2.6	2.9	3.2	4.0	4.9
	24	2.9	3.4	3.7	4.0	4.6	5.4

For doors with small thickness 10–16 mm (8646i, 8646 a 8676)

Full overlay (D = C + B - A)		cup distance (C)					
height of the plate (D) <sup>1)</sup> (mm)		3	4	4.5	5	6	7
overlay (A) (mm)	10	5.5	6.5	7.0	7.5	8.5	9.5
	11	4.5	5.5	6.0	6.5	7.5	8.5
	12	3.5	4.5	5.0	5.5	6.5	7.5
	13	2.5	3.5	4.0	4.5	5.5	6.5
	14	1.5	2.5	3.0	3.5	4.5	5.5
	15	0.5	1.5	2.0	2.5	3.5	4.5
	16		0.5	1.0	1.5	2.5	3.5
	17			0.0	0.5	1.5	2.5
	18					0.5	1.5
	19						0.5

Half overlay (D = C + B - A)		cup distance (C)					
height of the plate (D) <sup>1)</sup> (mm)		3	4	4.5	5	6	7
overlay (A) (mm)	0.5	5.5	6.5	7.0	7.5	8.5	9.5
	1.5	4.5	5.5	6.0	6.5	7.5	8.5
	2.5	3.5	4.5	5.0	5.5	6.5	7.5
	3.5	2.5	3.5	4.0	4.5	5.5	6.5
	4.5	1.5	2.5	3.0	3.5	4.5	5.5
	5.5	0.5	1.5	2.0	2.5	3.5	4.5
	6.5		0.5	1.0	1.5	2.5	3.5
	7.5			0.0	0.5	1.5	2.5
	8.5					0.5	1.5
	9.5						0.5

Inset (D = C + B + F)		cup distance (C)					
door thickness (mm)		3	4	4.5	5	6	7
door thickness (mm)	10		0.1	0.6	1.1	2.1	3.1
	11		0.2	0.7	1.2	2.2	3.2
	12		0.4	0.9	1.4	2.4	3.3
	13		0.6	1.0	1.5	2.5	3.5
	14		0.8	1.2	1.7	2.7	3.7
	15	0.0	1.0	1.5	2.0	2.9	3.9
	16	0.3	1.3	1.8	2.2	3.2	4.2
	17						
	18						
	19						

For doors with large thickness 15–32 mm (8631i, 8631 a 8661)

Full overlay (D = C + B - A)		cup distance (C)						
height of the plate (D) <sup>1)</sup> (mm)		3	4	4.5	5	6	7	8
overlay (A) (mm)	10	5.5	6.5	7.0	7.5	8.5	9.5	10.5
	11	4.5	5.5	6.0	6.5	7.5	8.5	9.5
	12	3.5	4.5	5.0	5.5	6.5	7.5	8.5
	13	2.5	3.5	4.0	4.5	5.5	6.5	7.5
	14	1.5	2.5	3.0	3.5	4.5	5.5	6.5
	15	0.5	1.5	2.0	2.5	3.5	4.5	5.5
	16		0.5	1.0	1.5	2.5	3.5	4.5
	17			0.0	0.5	1.5	2.5	3.5
	18					0.5	1.5	2.5
	19						0.5	1.5
20							0.5	

Half overlay (D = C + B - A)		cup distance (C)						
height of the plate (D) <sup>1)</sup> (mm)		3	4	4.5	5	6	7	8
overlay (A) (mm)	0.5	5.5	6.5	7.0	7.5	8.5	9.5	10.5
	1.5	4.5	5.5	6.0	6.5	7.5	8.5	9.5
	2.5	3.5	4.5	5.0	5.5	6.5	7.5	8.5
	3.5	2.5	3.5	4.0	4.5	5.5	6.5	7.5
	4.5	1.5	2.5	3.0	3.5	4.5	5.5	6.5
	5.5	0.5	1.5	2.0	2.5	3.5	4.5	5.5
	6.5		0.5	1.0	1.5	2.5	3.5	4.5
	7.5			0.0	0.5	1.5	2.5	3.5
	8.5					0.5	1.5	2.5
	9.5						0.5	1.5
10.5							0.5	

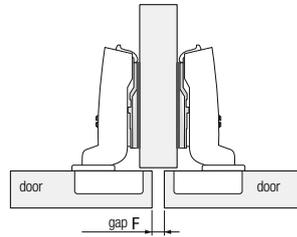
Inset (D = C + B - A)		cup distance (C)						
door thickness (mm)		3	4	4.5	5	6	7	8
door thickness (mm)	15		0.1	0.6	1.1	2.1	3.1	4.1
	16		0.1	0.6	1.1	2.1	3.1	4.1
	17		0.2	0.7	1.2	2.2	3.2	4.2
	18		0.2	0.7	1.2	2.2	3.2	4.2
	19		0.3	0.8	1.3	2.3	3.3	4.3
	20		0.4	0.9	1.4	2.4	3.4	4.4
	21		0.6	1.1	1.6	2.6	3.6	4.6
	22		0.7	1.2	1.7	2.7	3.7	4.7
	23		0.9	1.4	1.9	2.9	3.9	4.9
	24	0.1	1.0	1.5	2.0	3.0	4.0	5.0
	25	0.3	1.2	1.7	2.2	3.2	4.2	5.2
	26	0.5	1.5	1.9	2.4	3.4	4.4	5.4
	27	0.7	1.7	2.2	2.7	3.6	4.6	5.6
	28	1.0	2.0	2.4	2.9	3.9	4.8	5.8
	29	1.9	2.3	2.7	3.2	4.2	5.1	6.1
	30	2.8	3.2	3.5	3.7	4.5	5.4	6.4
	31	3.8	4.1	4.3	4.6	5.1	5.7	6.7
32	4.7	5.1	5.3	5.5	5.9	6.4	7.0	

<sup>1)</sup>Select the nearest plate size, see p. 1.131 from the catalogue, e.g.: table 3.5 = plate 3, table 6.5 = plate 5, etc.



**Minimum gap (F) between individual doors (8645i, 8645 and 8675)**

door thickness (mm)	cup distance (C)					
	3	4	4,5	5	6	7
15	0.2	0.2	0.2	0.2	0.2	0.2
16	0.3	0.3	0.3	0.3	0.3	0.3
17	0.4	0.4	0.4	0.4	0.4	0.4
18	0.6	0.6	0.6	0.6	0.6	0.5
19	0.8	0.8	0.8	0.8	0.7	0.7
20	1.1	1.0	1.0	1.0	1.0	0.9
21	1.4	1.3	1.3	1.3	1.2	1.2
22	2.2	1.8	1.7	1.6	1.6	1.5
23	3.0	2.6	2.4	2.2	2.0	1.9
24	3.9	3.4	3.2	3.0	2.6	2.4



**Minimum gap (F) between individual doors (8646i, 8646 and 8676)**

door thickness (mm)	cup distance (C)					
	3	4	4,5	5	6	7
10	0.2	0.2	0.2	0.2	0.2	0.2
11	0.3	0.3	0.3	0.3	0.3	0.3
12	0.4	0.4	0.4	0.4	0.4	0.4
13	0.6	0.6	0.6	0.6	0.6	0.5
14	0.8	0.8	0.8	0.8	0.7	0.7
15	1.1	1.0	1.0	1.0	1.0	0.9
16	1.4	1.3	1.3	1.3	1.2	1.2

**Minimum gap (F) between individual doors (8631i, 8631 and 8661)**

door thickness (mm)	cup distance (C)						
	3	4	4,5	5	6	7	8
15	0.1	0.1	0.1	0.1	0.1	0.1	0.1
16	0.1	0.1	0.1	0.1	0.1	0.1	0.1
17	0.2	0.2	0.2	0.2	0.2	0.2	0.2
18	0.2	0.2	0.2	0.2	0.2	0.2	0.2
19	0.3	0.3	0.3	0.3	0.3	0.3	0.3
20	0.4	0.4	0.4	0.4	0.4	0.4	0.4
21	0.6	0.6	0.6	0.6	0.6	0.6	0.6
22	0.7	0.7	0.7	0.7	0.7	0.7	0.7
23	0.9	0.9	0.9	0.9	0.9	0.9	0.9
24	1.1	1.0	1.0	1.0	1.0	1.0	1.0
25	1.3	1.2	1.2	1.2	1.2	1.2	1.2
26	1.5	1.4	1.4	1.4	1.4	1.4	1.4
27	1.7	1.7	1.7	1.7	1.6	1.6	1.6
28	2.0	2.0	1.9	1.9	1.9	1.8	1.8
29	2.9	2.3	2.2	2.2	2.2	2.1	2.1
30	3.8	3.2	3.0	2.7	2.5	2.4	2.4
31	4.8	4.1	3.8	3.6	3.1	2.7	2.7
32	5.7	5.1	4.8	4.5	3.9	3.4	3.0


**Table for plate height determination (D) when the overlay size or thickness of the door and the drilling distance of the hole for the cup from the door's edge are known (8657i, 8657 a 8687).**

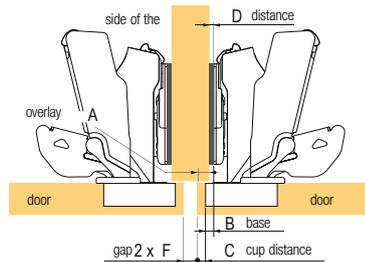
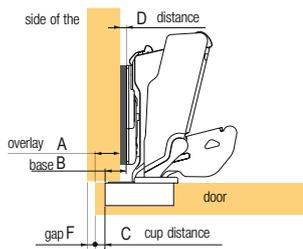
Full overlay (D = C + B - A)							
height of the plate (D) <sup>1)</sup> (mm)	cup distance (C)						
	3	4	4.5	5	6	7	
10	5.5	6.5	7.0	7.5	8.5	9.5	
11	4.5	5.5	6.0	6.5	7.5	8.5	
12	3.5	4.5	5.0	5.5	6.5	7.5	
13	2.5	3.5	4.0	4.5	5.5	6.5	
14	1.5	2.5	3.0	3.5	4.5	5.5	
15	0.5	1.5	2.0	2.5	3.5	4.5	
16		0.5	1.0	1.5	2.5	3.5	
17			0.0	0.5	1.5	2.5	
18					0.5	1.5	
19						0.5	

Half overlay (D = C + B - A)							
height of the plate (D) <sup>1)</sup> (mm)	cup distance (C)						
	3	4	4.5	5	6	7	
-2	8.0	9.0	9.5	10.0	11.0	12.0	
-1	7.0	8.0	8.5	9.0	10.0	11.0	
0	6.0	7.0	7.5	8.0	9.0	10.0	
1	5.0	6.0	6.5	7.0	8.0	9.0	
2	4.0	5.0	5.5	6.0	7.0	8.0	
3	3.0	4.0	4.5	5.0	6.0	7.0	
4	2.0	3.0	3.5	4.0	5.0	6.0	
5	1.0	2.0	2.5	3.0	4.0	5.0	
6	0.0	1.0	1.5	2.0	3.0	4.0	
7		0.0	0.5	1.0	2.0	3.0	
8				0.0	1.0	2.0	
9					0.0	1.0	
10						0.0	

**Minimum gap (F) between individual doors (8657i, 8657 and 8687)**

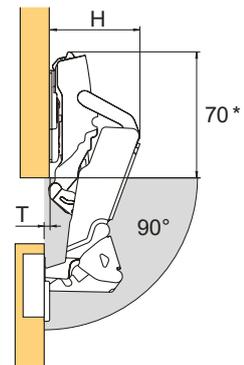
door thickness (mm)	cup distance (C)						
	3	4	4.5	5	6	7	
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.1	0.1	0.1	0.1	0.1	0.1	0.1
27	0.1	0.1	0.1	0.1	0.1	0.1	0.1
28	0.2	0.2	0.2	0.2	0.2	0.2	0.3
29 <sup>1)</sup>	0.4	0.4	0.4	0.4	0.5	0.6	0.6
30 <sup>2)</sup>	0.7	0.7	0.8	0.8	1.0	1.1	1.1
31 <sup>2)</sup>	1.1	1.2	1.3	1.4	1.6		
32 <sup>2)</sup>	1.7	1.9	2.0	2.2			

<sup>1)</sup> when using an opening angle stop to 120°  
<sup>2)</sup> when using an opening angle stop to 105°

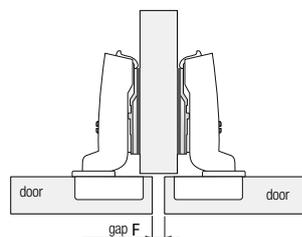

**Minimum gap (F) between individual doors<sup>1)</sup> (8639i, 8639 and 8669)**

door thickness (mm)	cup distance (C)						
	3	4	4.5	5	6	7	8
15	0.2	0.2	0.2	0.2	0.2	0.2	0.2
16	0.3	0.3	0.3	0.3	0.3	0.3	0.3
17	0.4	0.4	0.4	0.4	0.4	0.4	0.4
18	0.6	0.6	0.6	0.6	0.6	0.5	0.5
19	0.8	0.8	0.8	0.8	0.7	0.7	0.7
20	1.1	1.0	1.0	1.0	1.0	0.9	0.9
21	1.4	1.3	1.3	1.3	1.2	1.2	1.2
22	2.2	1.8	1.7	1.6	1.6	1.5	1.4
23	3.0	2.6	2.4	2.2	2.0	1.9	1.8
24	3.9	3.4	3.2	3.0	2.6	2.4	2.2
25	4.8	4.2	4.0	3.8	3.4	3.0	2.8
26	5.7	5.1	4.8	4.6	4.2	3.8	3.4
27	6.6	6.0	5.7	5.5	5.0	4.5	4.2
28	7.5	6.9	6.6	6.3	5.8	5.3	4.9

<sup>1)</sup> the table applies to hinges with overlay of 30°, 45° and 90°; for 90° the drilling distance is max. 7 mm from the edge



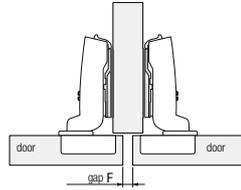
door overlay (mm)	distance
	3
12	5.0
13	4.0
14	3.0
15	2.0
16	1.0
17	0.0





**Minimum gap (F) between individual doors (9943 a 9973)**

door thickness (mm)	cup distance (C)				
	3	4	4.5	5	6
15	0.4	0.4	0.4	0.4	0.4
16	0.6	0.5	0.5	0.5	0.5
17	0.8	0.7	0.7	0.7	0.7
18	1.0	1.0	1.0	1.0	0.9
19	1.4	1.3	1.3	1.2	1.2
20	1.7	1.7	1.6	1.6	1.5
21	2.2	2.1	2.0	2.0	1.9
22	2.9	2.6	2.5	2.4	2.3
23	3.7	3.3	3.2	3.0	2.8
24	4.5	4.1	3.9	3.7	3.4
25	5.4	4.9	4.7	4.5	4.1



**Minimum gap (F) between individual doors (9944)**

door thickness (mm)	cup distance (C)					
	3	4	4.5	5	5.5 <sup>1)</sup>	6
15	0.6	0.6	0.6	0.6	0.6	0.6
16	0.9	0.8	0.8	0.8	0.8	0.8
17	1.1	1.1	1.1	1.0	1.0	1.0
18	1.4	1.4	1.3	1.3	1.3	1.3
19	1.8	1.7	1.7	1.6	1.6	1.6
20	2.1	2.1	2.0	2.0	1.9	1.9
21	2.6	2.5	2.4	2.4	2.3	2.3
22	3.2	3.0	2.9	2.8	2.8	2.7
23	3.8	3.6	3.5	3.4	3.3	3.2
24	4.6	4.2	4.1	4.0	3.9	3.8
25	5.4	5.0	4.8	4.6	4.5	4.4
26	6.3	5.8	5.6	5.4	5.2	5.1
27	7.1	6.6	6.4	6.2	6.0	5.8
28	8.0	7.5	7.2	7.0	6.8	6.6

Table for plate height determination (D) when the overlay size or thickness of the door and the drilling distance of the hole for the cup from the door's edge are known (9943 a 9973).

**Full overlay (D = C + B - A)**

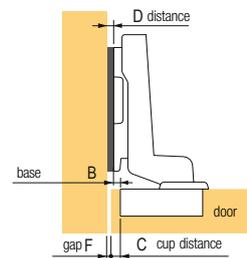
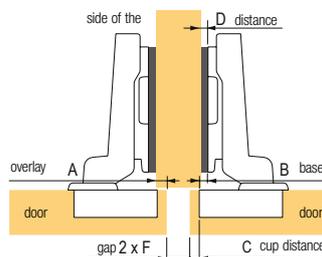
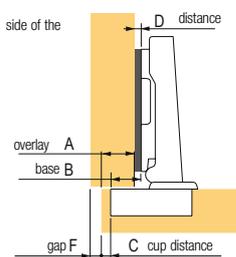
height of the plate (D) <sup>1)</sup> (mm)	cup distance (C)				
	3	4	4.5	5	6
10	5.5	6.5	7.0	7.5	8.5
11	4.5	5.5	6.0	6.5	7.5
12	3.5	4.5	5.0	5.5	6.5
13	2.5	3.5	4.0	4.5	5.5
14	1.5	2.5	3.0	3.5	4.5
15	0.5	1.5	2.0	2.5	3.5
16		0.5	1.0	1.5	2.5
17			0.0	0.5	1.5
18					0.5

**Half overlay (D = C + B - A)**

height of the plate (D) <sup>1)</sup> (mm)	cup distance (C)				
	3	4	4.5	5	6
0.5	5.5	6.5	7.0	7.5	8.5
1.5	4.5	5.5	6.0	6.5	7.5
2.5	3.5	4.5	5.0	5.5	6.5
3.5	2.5	3.5	4.0	4.5	5.5
4.5	1.5	2.5	3.0	3.5	4.5
5.5	0.5	1.5	2.0	2.5	3.5
6.5		0.5	1.0	1.5	2.5
7.5			0.0	0.5	1.5
8.5					0.5

**Inset (D = C + B + F)**

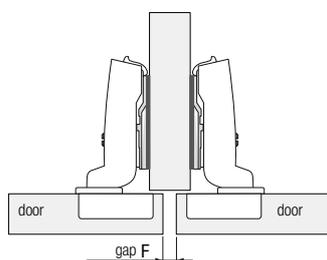
door thickness (mm)	cup distance (C)				
	3	4	4.5	5	6
15		0.9	1.4	1.9	2.9
16	0.1	1.0	1.5	2.0	3.0
17	0.3	1.2	1.7	2.2	3.2
18	0.5	1.5	2.0	2.5	3.4
19	0.9	1.8	2.3	2.7	3.7
20	1.2	2.2	2.6	3.1	4.0
21	1.7	2.6	3.0	3.5	4.3
22	2.4	3.1	3.5	3.9	4.8
23	3.2	3.8	4.2	4.5	5.3
24	4.0	4.6	4.9	5.2	5.9
25	4.9	5.4	5.7	6.0	6.6





Minimum gap (F) between individual doors (9936)							
door thickness (mm)	cup distance (C)						
	3	4	4.5	5	6	7	8
14	0.2	0.2	0.2	0.2	0.2	0.2	0.2
15	0.3	0.2	0.2	0.2	0.2	0.2	0.2
16	0.4	0.4	0.4	0.4	0.4	0.4	0.4
17	0.5	0.5	0.5	0.5	0.5	0.5	0.5
18	0.7	0.7	0.7	0.7	0.6	0.6	0.6
19	0.9	0.9	0.9	0.8	0.8	0.8	0.8
20	1.1	1.1	1.1	1.1	1.0	1.0	1.0
21	1.4	1.3	1.3	1.3	1.3	1.2	1.2
22	1.7	1.6	1.6	1.6	1.5	1.5	1.5
23	2.0	1.9	1.9	1.9	1.8	1.8	1.7
24	2.3	2.3	2.2	2.2	2.1	2.1	2.0
25	2.8	2.7	2.6	2.6	2.5	2.4	2.4
26	3.3	3.1	3.1	3.0	2.9	2.8	2.7
27	4.2	3.7	3.6	3.5	3.3	3.2	3.1
28	5.0	4.5	4.3	4.1	3.9	3.7	3.6
29	5.9	5.4	5.2	4.9	4.6	4.3	4.1
30	6.8	6.3	6.0	5.8	5.3	5.0	4.7
31	7.8	7.2	6.9	6.6	6.1	5.7	5.4
32	8.7	8.1	7.8	7.5	7.0	6.5	6.1

Minimum gap (F) between individual doors (9936 and 9966 – W90)						
door thickness (mm)	cup distance (C)					
	3	4	4.5	5	6	7
14	0.2	0.2	0.2	0.2	0.2	0.2
15	0.3	0.2	0.2	0.2	0.2	0.2
16	0.4	0.4	0.4	0.4	0.4	0.4
17	0.5	0.5	0.5	0.5	0.5	0.5
18	0.7	0.7	0.7	0.7	0.6	0.6
19	0.9	0.9	0.9	0.8	0.8	0.8
20	1.1	1.1	1.1	1.1	1.0	1.0
21	1.4	1.3	1.3	1.3	1.3	
22	1.7	1.6	1.6	1.6	1.5	
23	2.0	1.9	1.9	1.9	1.8	
24	2.3	2.3	2.2	2.2	2.1	
25	2.8	2.7	2.6	2.6		
26	3.3	3.1	3.1			
27	4.2	3.7	3.6			
28	5.0					



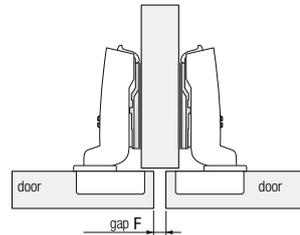
Minimum gap (F) between individual doors (9944 – W-30)					
door thickness (mm)	cup distance (C)				
	3	4	4.5	5	5.5
15	0.6	0.6	0.6	0.6	0.6
16	0.9	0.8	0.8	0.8	0.8
17	1.1	1.1	1.1	1.0	1.0
18	1.4	1.4	1.3	1.3	1.3
19	1.8	1.7	1.7	1.6	1.6
20	2.1	2.1	2.0	2.0	1.9
21	2.6	2.5	2.4	2.4	2.3
22	3.2	3.0	2.9	2.8	2.8
23	3.8	3.6	3.5	3.4	3.3
24	4.6	4.2	4.1	4.0	3.9
25	5.4	5.0	4.8	4.6	4.5
26	6.3	5.8	5.6	5.4	5.2
27	7.1	6.6	6.4	6.2	6.0
28	8.0	7.5	7.2	7.0	6.8
28	5.0	4.5	4.3	4.1	3.9
29	5.9	5.4	5.2	4.9	4.6
30	6.8	6.3	6.0	5.8	5.3
31	7.8	7.2	6.9	6.6	6.1
32	8.7	8.1	7.8	7.5	7.0

Minimum gap (F) between individual doors (9944 – W-45)					
door thickness (mm)	cup distance (C)				
	3	4	4.5	5	5.5
15	0.6	0.6	0.6	0.6	0.6
16	0.9	0.8	0.8	0.8	0.8
17	1.1	1.1	1.1	1.0	1.0
18	1.4	1.4	1.3	1.3	1.3
19	1.8	1.7	1.7	1.6	1.6
20	2.1	2.1	2.0	2.0	1.9
21	2.6	2.5	2.4	2.4	2.3
22	3.2	3.0	2.9	2.8	2.8
23	3.8	3.6	3.5	3.4	3.3
24	4.6	4.2	4.1	4.0	3.9
25	5.4	5.0	4.8	4.6	4.5
26	6.3	5.8	5.6	5.4	5.2
27	7.1	6.6	6.4	6.2	6.0
28	8.0	7.5	7.2	7.0	6.8



**Minimum gap (F) between individual doors (9924)**

door thickness (mm)	cup distance (C)				
	3	4	4.5	5	5.5
15	0.4	0.4	0.4	0.4	0.4
16	0.6	0.6	0.6	0.6	0.6
17	0.9	0.9	0.9	0.8	0.8
18	1.6	1.2	1.2	1.1	1.1
19	2.4	2.0	1.8	1.6	1.5
20	3.3	2.7	2.5	2.3	2.1
21	4.2	3.6	3.4	3.2	3.0
22	5.1	4.5	4.2	4.0	3.8
23	6.0	5.4	5.1	4.9	4.6
24	7.0	6.3	6.0	5.8	5.5
25	7.9	7.2	6.9	6.6	6.4



**Table for plate height determination (D) when the overlay size or thickness of the door and the drilling distance of the hole for the cup from the door's edge are known (9924)**

**Full overlay (D = C + B - A)**

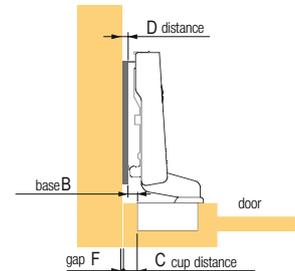
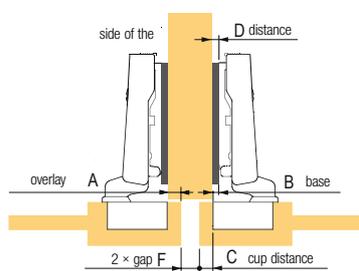
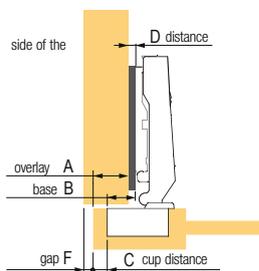
height of the plate (D) <sup>1)</sup> (mm)	cup distance (C)				
	3	4	4.5	5	5.5
8	6.0	7.0	7.5	8.0	8.5
9	5.0	6.0	6.5	7.0	7.5
10	4.0	5.0	5.5	6.0	6.5
11	3.0	4.0	4.5	5.0	5.5
12	2.0	3.0	3.5	4.0	4.5
13	1.0	2.0	2.5	3.0	3.5
14	0.0	1.0	1.5	2.0	2.5
15		0.0	0.5	1.0	1.5
16				0.0	0.5
16.5					0.0

**Half overlay (D = C + B - A)**

height of the plate (D) <sup>1)</sup> (mm)	cup distance (C)				
	3	4	4.5	5	5.5
0	5.5	6.5	7.0	7.5	8.0
1	4.5	5.5	6.0	6.5	7.0
2	3.5	4.5	5.0	5.5	6.0
3	2.5	3.5	4.0	4.5	5.0
4	1.5	2.5	3.0	3.5	4.0
5	0.5	1.5	2.0	2.5	3.0
6		0.5	1.0	1.5	2.0
7			0.0	0.5	1.0
7.5				0.0	0.5
8					0.0

**Inset (D = C + B + F)**

door thickness (mm)	cup distance (C)				
	3	4	4.5	5	5.5
15		0.4	0.9	1.4	1.9
16		0.6	1.1	1.6	2.1
17		0.9	1.4	1.8	2.3
18	0.6	1.2	1.7	2.1	2.6
19	1.4	2.0	2.3	2.6	3.0
20	2.3	2.8	3.1	3.4	3.7
21	3.2	3.6	3.9	4.2	4.5
22	4.1	4.5	4.7	5.0	5.3
23	5.0	5.4	5.6	5.9	6.1
24	6.0	6.3	6.5	6.8	7.0





**Minimum gap (F) between individual doors (9904)**

door thickness (mm)	cup distance (C)	
	5.5	6
4	0.0	0.0
5	0.0	0.0
5.5	0.0	0.0
6	0.0	0.0
6.5	0.0	0.0

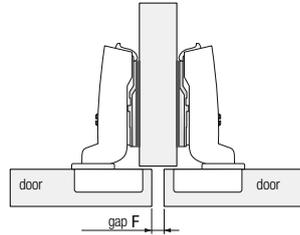


Table for plate height determination (D) when the overlay size or thickness of the door and the drilling distance of the hole for the cup from the door's edge are known

**Full overlay ( $D = C + B - A$ ) (9904)**

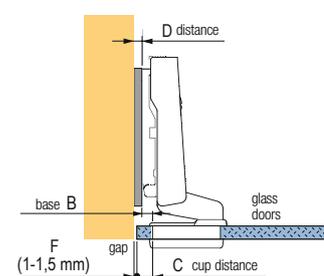
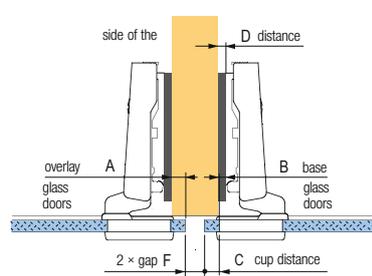
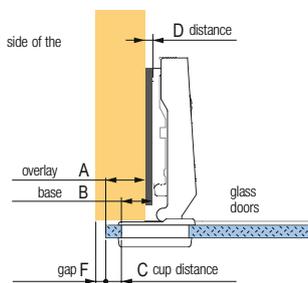
height of the plate (D) <sup>1)</sup> (mm)	cup distance (C)			
	5.5	6		
9	7.5	8.0		
10	6.5	7.0		
11	5.5	6.0		
12	4.5	5.0		
13	3.5	4.0		
14	2.5	3.0		
15	1.5	2.0		
16	0.5	1.0		
16.5	0.0	0.0		

**Half overlay ( $D = C + B - A$ ) (9904)**

height of the plate (D) <sup>1)</sup> (mm)	cup distance (C)			
	5.5	6		
0	8.0	8.5		
1	7.0	7.5		
2	6.0	6.5		
3	5.0	5.5		
4	4.0	4.5		
5	3.0	3.5		
6	2.0	2.5		
7	1.0	1.5		
7.5	0.5	1.0		
8	0.0	0.5		

**Inset ( $D = C + B + F$ ) (9904)**

door thickness (mm)	cup distance (C)			
	5.5	6		
1	2.5	3.0		
1.5	3.0	3.5		





## Slide-on

- 95° opening angle
- mounting on the plate by sliding-on
- drilling diameter for a 35 mm cup, drilling pitch for mounting screws/dowels 52 mm
- integrated adjustment of overlay + 0.5 / - 2.5 mm
- integrated depth adjustment ± 2 mm
- height adjustment with a mounting plate
- cup and arm nickel-plated steel

☑ for mounting plates, cover caps and other accessories, see p. 1.154

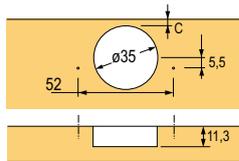


## For door thickness 14–25 mm

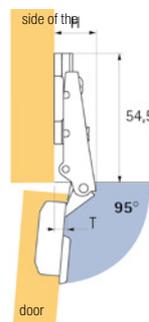
### Silent System

code	Hettich code	description	B (mm)	H (mm)	T (mm)
<b>107616</b>	1078660	full overlay	14.5	19.0	6.0
<b>107617</b>	1078661	half overlay	5	28.5	15.5
<b>107619</b>	1078662	inset	-1.5	35.0	22.0

Type of cup  
cup T 42 for screwing-on



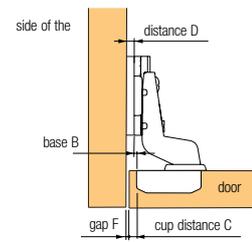
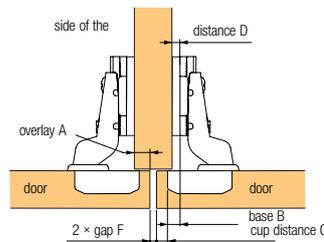
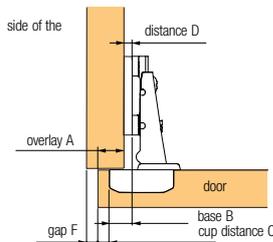
example of use



hinge height H, door protrusion T at distance 0 mm and cup distance C 3 mm

### Minimum gap (F) between individual doors

door thickness (mm)	cup distance (C)				
	3	4	4.5	5	6
14	0.1	0.1	0.1	0.1	0.1
15	0.2	0.2	0.2	0.2	0.2
16	0.4	0.4	0.4	0.4	0.3
17	0.6	0.5	0.5	0.5	0.5
18	0.8	0.8	0.7	0.7	0.7
19	1.1	1.0	1.0	1.0	1.0
20	1.5	1.4	1.3	1.3	1.3
21	2.2	1.9	1.8	1.7	1.6
22	3.0	2.6	2.4	2.3	2.1
23	3.9	3.4	3.2	3.0	2.7
24	4.7	4.2	4.0	3.8	3.4
25	5.6	5.1	4.8	4.6	4.2



### Table for plate height determination (D) when the overlay size or thickness of the door and the drilling distance of the hole for the cup from the door's edge are known

#### Full overlay (D = C + B - A)

D = height of the plate C = cup distance  
A = overlay (mm)

C	3	4	4.5	5	6
<b>A</b>	<b>D<sup>1)</sup></b>				
10	7.5	8.5	9.0	9.5	10.5
11	6.5	7.5	8.0	8.5	9.5
12	5.5	6.5	7.0	7.5	8.5
13	4.5	5.5	6.0	6.5	7.5
14	3.5	4.5	5.0	5.5	6.5
15	2.5	3.5	4.0	4.5	5.5
16	1.5	2.5	3.0	3.5	4.5
17	0.5	1.5	2.0	2.5	3.5
18		0.5	1.0	1.5	2.5
19			0.0	0.5	1.5
20					0.5

#### Half overlay (D = C + B - A)

D = height of the plate C = cup distance  
A = overlay (mm)

C	3	4	4.5	5	6
<b>A</b>	<b>D<sup>1)</sup></b>				
0	8.0	9.0	9.5	10.0	11.0
1	7.0	8.0	8.5	9.0	10.0
2	6.0	7.0	7.5	8.0	9.0
3	5.0	6.0	6.5	7.0	8.0
4	4.0	5.0	5.5	6.0	7.0
5	3.0	4.0	4.5	5.0	6.0
6	2.0	3.0	3.5	4.0	5.0
7	1.0	2.0	2.5	3.0	4.0
8	0.0	1.0	1.5	2.0	3.0
9		0.0	0.5	1.0	2.0
10				0.0	1.0
11					0.0

#### Inset (D = C + B + F)

D = height of the plate C = cup distance  
F = door thickness (mm)

C	3	4	4.5	5	6
<b>F</b>	<b>D<sup>1)</sup></b>				
14	1.6	2.6	3.1	3.6	4.6
15	1.7	2.7	3.2	3.7	4.7
16	1.9	2.9	3.4	3.9	4.8
17	2.1	3.0	3.5	4.0	5.0
18	2.3	3.3	3.7	4.2	5.2
19	2.6	3.5	4.0	4.5	5.5
20	3.0	3.9	4.3	4.8	5.8
21	3.7	4.4	4.8	5.2	6.1
22	4.5	5.1	5.4	5.8	6.6
23	5.4	5.9	6.2	6.5	7.2
24	6.2	6.7	7.0	7.3	7.9
25	7.1	7.6	7.8	8.1	8.7

For door thickness 14–25 mm

<sup>1)</sup>Select the nearest plate size, see p. 1.154 from the catalogue, e.g.: table 3.5 = plate 3, table 6.5 = plate 5, etc.

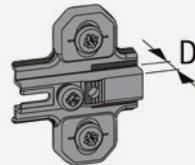


## Mounting plates for Slide-on hinges

### ACCESSORIES

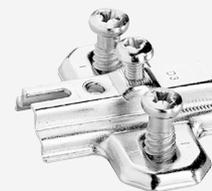
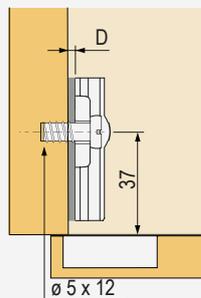
#### Cruciform, mounting by screws

code	Hettich code	distance (mm)
<b>106417</b>	1079197	0
<b>106340</b>	1079198	1.5
<b>106341</b>	1079199	3
<b>103762</b>	1079200	5



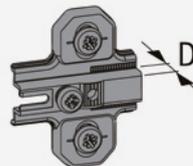
#### Cruciform, mounting by pre-mounted euro screws

code	Hettich code	distance (mm)
<b>106418</b>	1079221	0
<b>106419</b>	1079222	1.5
<b>185505</b>	1079223	3
<b>185506</b>	1079224	5



#### Additional spacers

code	Hettich code	distance (mm)
<b>106361</b>	79323	3
<b>106362</b>	79324	5
<b>106363</b>	79325	10



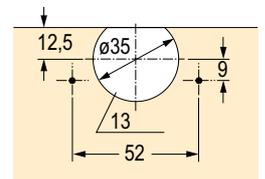
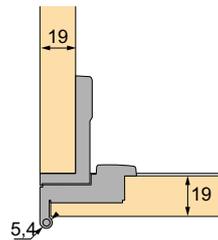


## Single-pivot cup hinge Selekta Pro 2000

for body construction with sides and doors with a thickness of 19 mm

code	Hettich code	description
<b>104078</b>	45045	270°

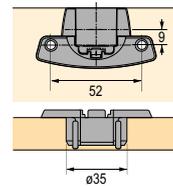
- single-pivot hinge with clip technique
- with visible roller
- drilling pitch 32 mm
- cup diameter 35 mm, door overlay 15 or 16 mm, knuckle diameter 5.4 mm, knuckle length 39 mm
- separate mounting of the cup and hinge arm
- in the hinge arm, there are split dowels and pre-mounted screws
- quick assembly of the door with clip-type technique without using tools
- high safety preventing unwanted release: the lock can only be released with a screwdriver
- at opening angle 180°, the door does not extend to cabinet body clearance, so the inner space is free for sliding elements
- overlay adjustment with a cam - 2 mm
- cam height adjustment ± 2 mm
- cup and hinge arm: precision nickel-coated zinc casts
- hinge = arm + cup



### Cup

code	Hettich code	description
<b>104576</b>	77736	T 22/9 for screwing-on

- type of cup
- cup T 22/9 for screwing-on



### Arm cover cap

code	Hettich code	description
<b>103739</b>	10067	silver-grey plastic

- can be used with Selekta Pro series hinges



### Inset, 180° opening angle, nickel

code	Hettich code	description	cup mounting
<b>105606</b>	77734	bowl	screw
<b>105217</b>	45064	arm	with expanding sockets



## **N** Single-pivot cup hinge Selekta Pro 2000 in black colour

Full overlay, 270° opening angle, black

code	Hettich code	description	cup mounting
<b>300846</b>	9072543	bowl	screw
<b>300850</b>	9072547	arm	with expanding sockets
<b>300808</b>	1076200	cover cap	

- The special colour allows this hinge to be used even in a very acidic environment (e.g. in a laboratory).

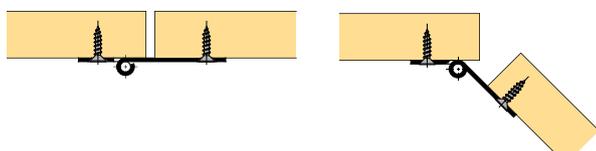




## Hinge 625 for folding doors

code	Hettich code	description
<b>104439</b>	71648	nickel-plated steel

- hinge 625 is especially suitable for folding doors
- 180° opening angle
- hinge and pin are made of steel, with abrasion-resistant plastic intermediate rings
- with fixed pin
- nickel-plated steel

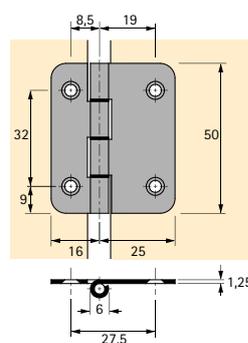


### Calculation of pin offset for folding doors

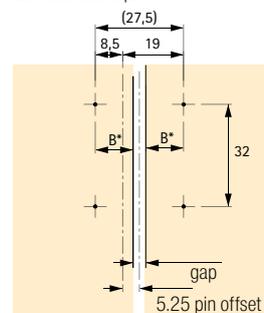
B hole pitch mm <sup>1)</sup>	11.25	11.75	12.25	12.75	13.25
gap (mm)	5	4	3	2	1

<sup>1)</sup> carry out trial mounting

hinge 625 for folding doors



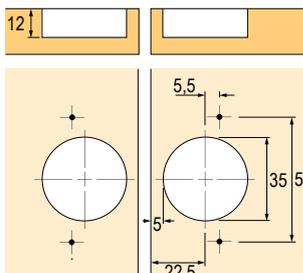
use with offset pin



## Hinge for folding doors with offset pin

code	Hettich code	description
<b>104142</b>	46787	for screwing

- door thickness from 15 mm
- gap is adjustable from hair-size to + 4 mm
- door leaves are always in one plane
- drilling is identical for both hinge parts which are mounted separately
- 180° opening angle
- offset adjustment 0 mm, 3 mm, and 6 mm
- nickel-coated zinc casting





## ET 5150 hinge for glass doors

code	Hettich code	description
<b>103899</b>	24908	matt nickel / 1 set

- for inset glass doors
- max. door dimensions 1,000 × 600 mm
- 170° opening angle
- max. glass thickness 6.3 mm
- with spring
- required gap up and down 2.2 mm, on sides 2 mm
- the hinge is mounted on the glass door with a tightening screw, so it is not necessary to drill into glass
- zinc casting
- set includes: 1 pair of hinges without handles



## Handle for glass doors

code	Hettich code	description
<b>103941</b>	25314	matt nickel / 1 pc

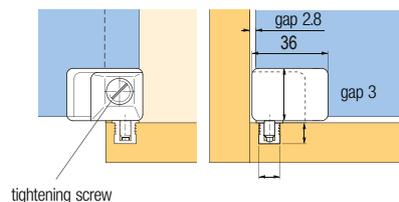
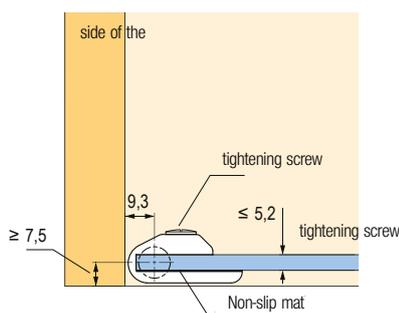
- its design matches the ET 5150 hinge for glass doors
- the handle is mounted on the glass door with a clamping screw
- zinc casting



## ET 150 hinge for glass door application

code	Hettich code	description
<b>103879</b>	20870	matt nickel / 1 set

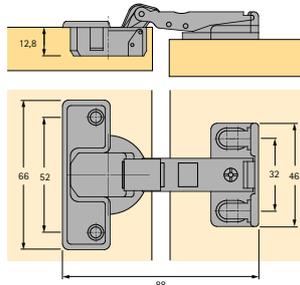
- for inset glass doors
- max. door dimensions 1,000 × 500 mm
- 105° opening angle
- max. glass thickness 5.2 mm
- required up and down gap 3 mm and side gap 2.8 mm
- the hinge is mounted on the glass door with a clamping screw, so it is not necessary to drill into glass
- zinc casting, nickel-coated matt
- only available as a set, i.e. one top and one bottom hinge
- set includes: 1 pair of hinges



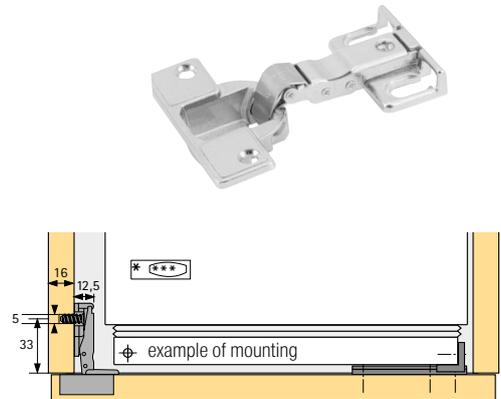

**Special hinge ET 582 for built-in refrigerators**

code	Hettich code	description
<b>104454</b>	72134	nickel-plated steel

- door thickness from 16 mm
- cup diameter 35 mm
- 95° opening angle
- with spring
- complete set with a mounting plate and a plastic spacer
- if a plastic spacer is used, the distance is 3 mm
- integrated adjustment of overlay  $\pm 1$  mm
- depth adjustment  $\pm 3$  mm
- hinge cup: nickel-coated zinc casting
- joint: nickel-plated steel



- fixing of mounting plate 33 mm from cabinet body edge overlay 14.5 mm at distance 3 mm and cup distance C 4.5 mm



cup distance C (mm)	overlay (mm)
3.0	13.0
3.5	13.5
4.0	14.0
4.5	14.5
5.0	15.0

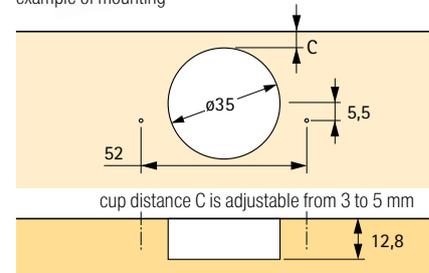
mounting plate  
+ plastic  
spacer  
= distance  
3 mm

cup distance C (mm)	overlay (mm)
3.0	16.0
3.5	16.5
4.0	17.0
4.5	17.5
5.0	18.0

mounting plate  
without plastic  
spacer  
= distance  
0 mm



example of mounting

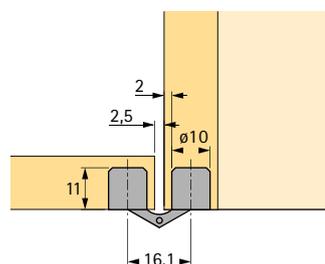
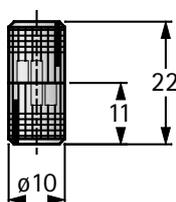

**Excellent recessed cylindrical hinge**

code	Hettich code	description
<b>103963</b>	31168	diameter 10 mm
<b>103964</b>	31169	diameter 12 mm
<b>103965</b>	31170	diameter 14 mm

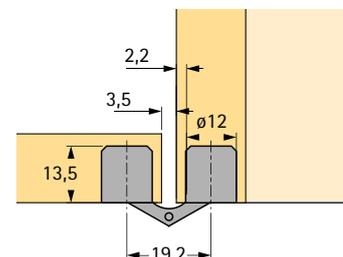
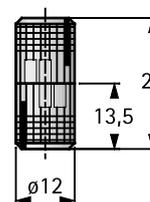
- for doors and folding doors
- 180° opening angle
- can be used as left or right
- matt brushed brass



diameter 10 mm



diameter 12 mm

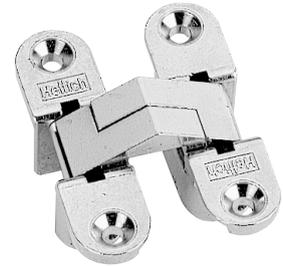
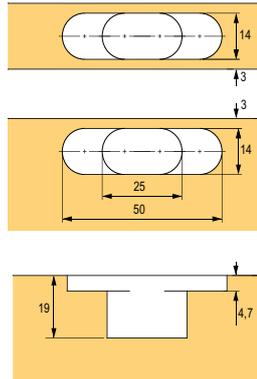
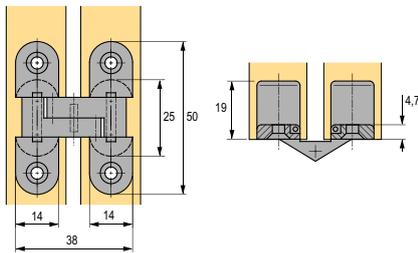




**Stabilo 72 hinge**

code	Hettich code	description
<b>104060</b>	44797	nickel-coated

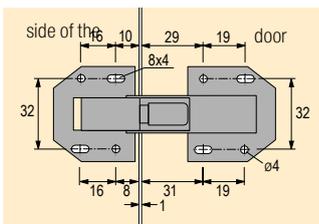
- for light furniture doors and max. weight 5 kg flap doors
- with rounded feet for recessing (milling diameter 14 mm)
- 180° opening angle
- can be used as left or right
- all-metal construction



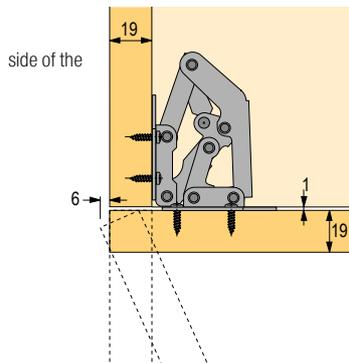
**Hinge for screwing-on with spring**

code	Hettich code	description
<b>103857</b>	19639	90°

- for all applications where drilling for hinge cup cannot be used
- can be used also for light folding doors
- nickel-plated steel
- 90° opening angle



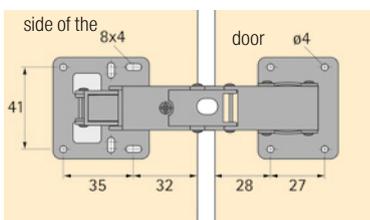
mounting on side (full overlay doors)



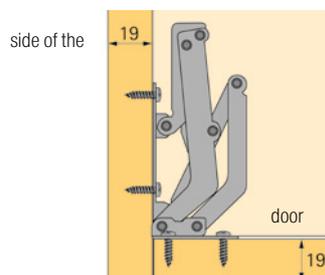
**Hinge for screwing-on with spring**

code	Hettich code	description
<b>103859</b>	20046	165-130°

- for all applications where drilling for hinge cup cannot be used
- opening angle can be restricted to 130° with adjusting screw
- nickel-plated steel
- 165-130° opening angle



mounting on side (inset doors)





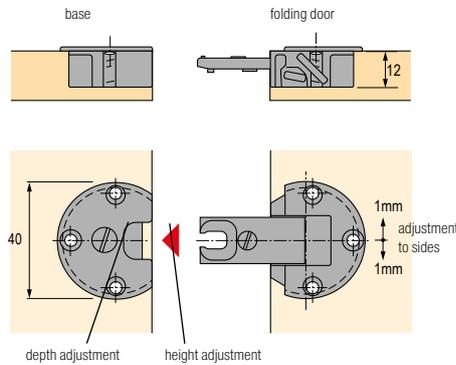
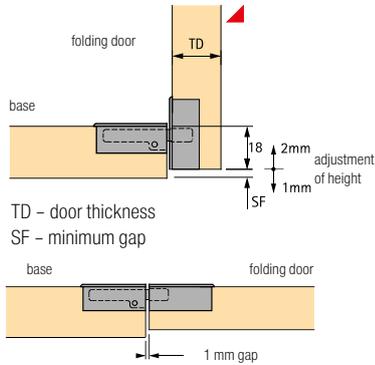
**Hinge for Markant 11 folding doors**

code	Hettich code	description
<b>103980</b>	40242	nickel-coated

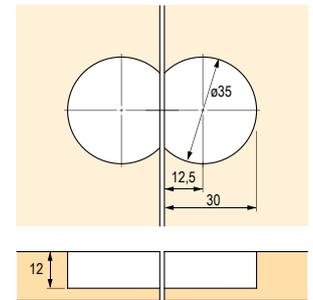
- the hinge consists of two parts which are mounted separately, which makes it possible to retrofit the door
- independent height, side and depth adjustment
- identical drilling of bottom and door
- fixed and precise attachment of the hinge with three screws
- milling edges are covered
- in open position without height adjustment, the inner side of the base levels with the door
- precise zinc casting



**Example of mounting**



**drilling**



fixed by screws with a diameter of 3.0 × 15 mm or 3.0 × 13 mm with countersunk head, head diameter 6 mm

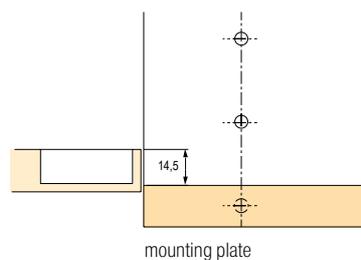
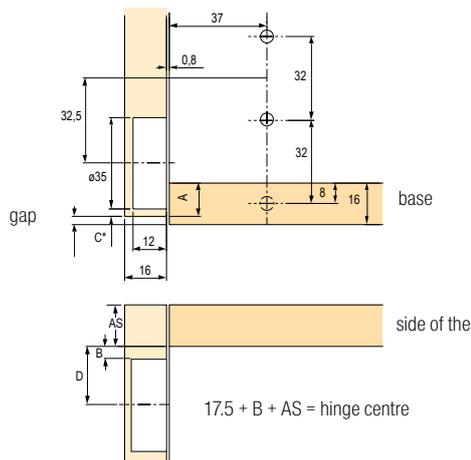
**Hinge for Markant 7.1 folding doors**

code	Hettich code	description
<b>104148</b>	46849	nickel-plated steel

- for full overlay folding doors
  - separate mounting of flap hinge and mounting plate
  - cup diameter 35 mm
  - depth adjustment ± 2 mm
  - height adjustment ± 2 mm with a mounting plate
  - nickel-plated steel
  - supplied in set (1 left + 1 right hinge)
- ☑ for recommended mounting plates see p. 1.54



**example of mounting**



cup distance C (mm)	A (mm)
3.0	13.0
4.0	14.0
4.5	14.5
5.0	15.0
6.0	16.0
7.0	17.0

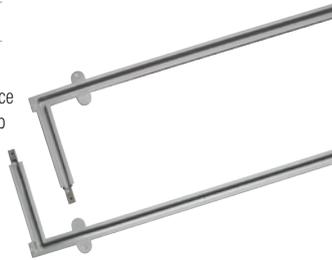
distance (mm)	B (mm)	D (mm)
0.0	6.0	23.5
1.5	7.5	25.0
3.0	9.0	26.5
5.0	11.0	28.5



## Lift Up

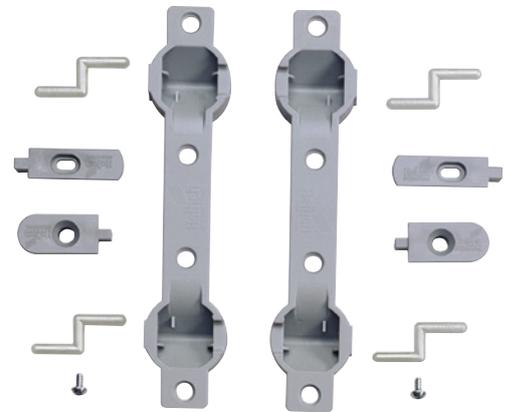
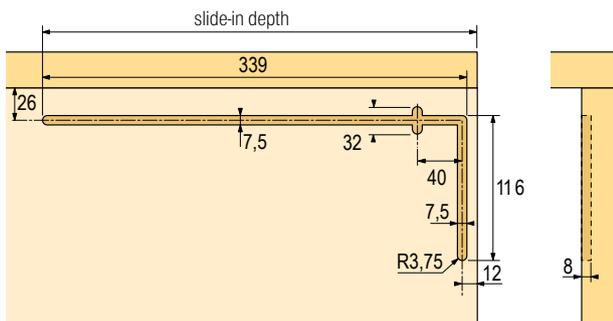
code	Hettich code	description
<b>105306</b>	45026	for door thickness 18/19 mm

- ideal for microwave ovens, electrical appliances or binders
- hinge fitting for inset lifting doors with easy installation, not demanding on the inside space of the cabinet body, the door slides almost completely into the cabinet body under the top
- max. door width 1,200 mm
- max. door weight 8 kg
- door height from 145 mm to 400 mm
- height adjustment  $\pm 1.25$  mm
- grey plastic

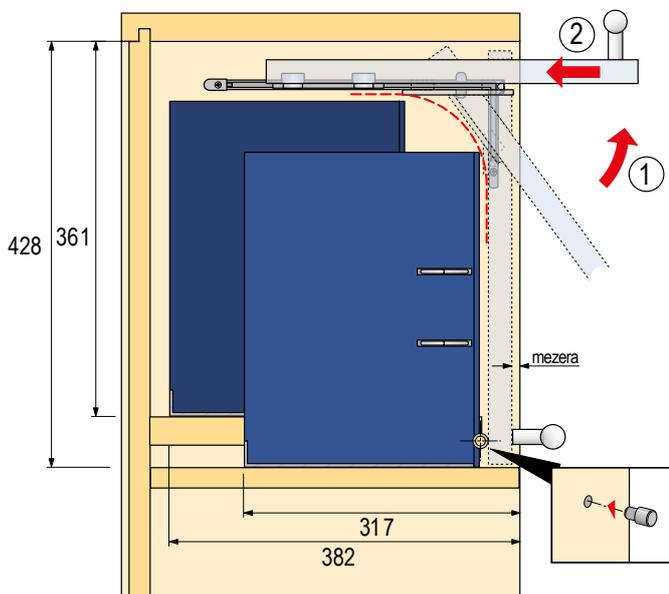


### Example of use

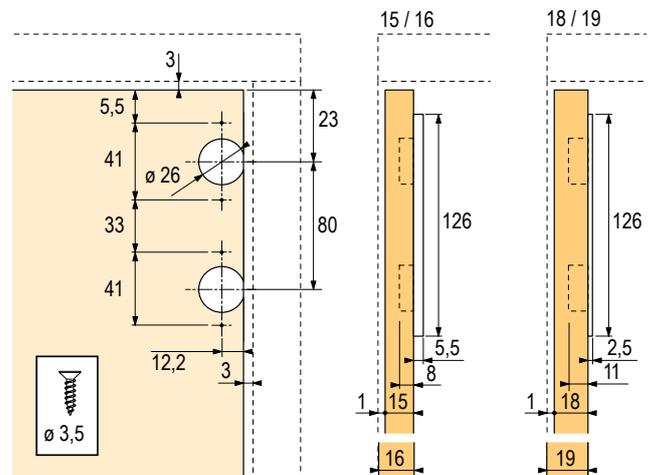
max. slide-in depth = 346 mm  
min. slide-in depth = 130 mm



**Set contains:**  
2 guide profiles  
2 adjusting adapters  
2 end pieces  
2 hinges  
4 pegs



### Drilling lift doors

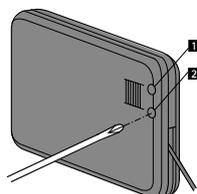




## LiftMini

### LiftMini – mechanism

code	Hettich code	type of mechanism
299800	9206675	A (the weakest)
299801	9206677	B
299802	9206688	C
299803	9206689	D
299804	9206690	E
299805	9206691	F (the strongest)



- position 1 – opening angle adjustment
- position 2 – soft closing adjustment

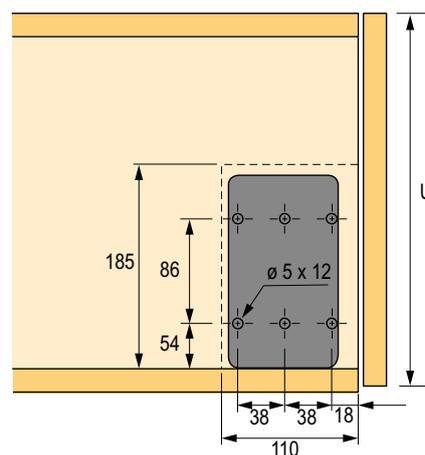
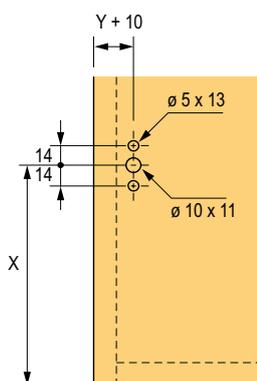
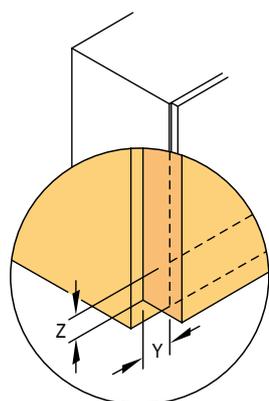
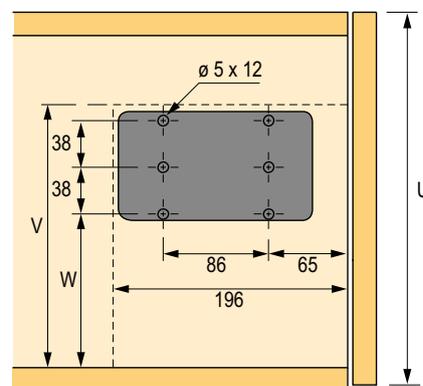


### LiftMini – cover caps

code	Hettich code	colour
299806	9206692	white
299807	9206694	brown
299808	9206695	black
299809	9206696	grey
299810	9206697	matt nickel
299811	9206698	matt silver
299812	9206699	polished silver



- for wooden doors or doors with wooden frame
- soft closing and opening
- **adjustable opening angle and opening speed**
- door weight including bracket from 1.4 to 14.5 kg
- door dimensions from 200 to 480 mm
- universal right-left option
- horizontal and vertical use depending on the space
- mechanism in grey plastic, fastening of the front made of zinc casting
- must be combined with cup or flap hinges





Horizontal use <sup>1)</sup>

door height (mm)	hinges						cup hinges						
	weight of the door (kg)	design <sup>1)</sup>						weight of the door (kg)	design <sup>1)</sup>				
A		B	C	D	E	F	A		B	C	D	E	F
200–230	2.4–2.8	1					2–2.8	1					
	4–4.8	1					3.5–4.8	1					
	4.2–6.2			1			4.3–5.8			1			
	4.8–6.8				1		4.9–6.9				1		
	5.8–8					1	5.9–7.8					1	
	7.2–10.4						7.6–10						1
230–270	2–2.3	1					2–2.4	1					
	3–4.4	1					3–3.6	2					
	3.2–4.4	2					3.2–4	1					
	3.6–5.2			1			3.7–5.6			1			
	4.4–6				1		4.4–6.2				1		
	5.2–7					1	6–7.6					1	
	6–8.4	2					6.8–8.5	2					
	6.8–8.6						6.8–9.2			2			
	6.8–9.6			2			7–9						1
270–330	1.4–2	1					1.7–2.1	1					
	2.9–3.8	2	1				3.1–3.9	1					
	3–4.6			1			3.2–3.8	2					
	3.6–5.2				1		3.8–5			1			
	4.6–6					1	4–5.2				1		
	5.6–7.8	2					4.7–7.3					1	
	6.4–8					1	5.4–7.4	2					
	6.4–8.8			2			5.6–7.6						1
	7–10.2				2		7.4–9			2			
	8.6–11.8					2	8.6–11				2		
330–380	2.7–3.7	1					2.6–3.6	1					
	3.2–4.3		1				3.7–5.1			1			
	3.7–4.9			1			3.3–4.9			1			
	4.3–5.7				1		4.4–5.5				1		
	5–7	2					5–7.2	2					
	5.5–7.1					1	5.4–6.7					1	
	6.5–8.5		2				7.2–8.8		2				
	6.9–10.1			2			8–11.2				2		
	8.7–11.1				2		9.6–12.4					2	
	11.9–13.5					2	12.8–14						2
380–430	2.9–3.6	1					2.8–3.7	1					
	3.1–3.9		1				2.9–3.9		1				
	3.7–4.5			1			3.3–4.5			1			
	4.5–6.1				1		3.9–5.2				1		
	4.5–6.1	2					4.5–7	2					
	5.4–6.9					1	4.9–6.1					1	
	5.7–7.3		2				6.1–8.7		2				
	6.9–8			2			7.5–11				2		
	8.5–10.1				2		8.4–12.2					2	
	10.9–12.5					2	12–14.5						2

<sup>1)</sup> The number indicates the required number of flap hinges.

Horizontal use <sup>1)</sup>

door height (mm)	hinges						cup hinges						
	weight of the door (kg)	design <sup>1)</sup>						weight of the door (kg)	design <sup>1)</sup>				
A		B	C	D	E	F	A		B	C	D	E	F
430–460	2.7–3.1	1					2.2–3	1					
	2.7–3.9			1			2.9–3.7		1				
	3.7–4.7				1		3.3–4.5			1			
	4.1–4.9					1	3.7–4.9				1		
	4.3–6.1	2					4.3–6.3	2					
	5.3–5.7					1	4.9–5.7					1	
	5.9–8.3			2			5.9–8.3		2				
	7.1–9.5				2		7.5–10.5			2			
	8.3–9.5					2	8.5–11				2		
	10.1–11.5						10.5–12.5					2	
460–480	2.5–2.9	1					2.8–3	1					
	2.8–3.8		1				2.9–3.7		1				
	3.6–4.4				1		3.4–4.1			1			
	3.8–4.8					1	3.7–4.5				1		
	4.1–5.7	2					4.1–6.1	2					
	5.3–7.7		2				4.7–5.5					1	
	5.4–5.6					1	5.5–7.5			2			
	6.8–8.9				2		7–9.5				2		
	7.2–9.6					2	9–10					2	
	9.8–11.4						11–12	2					2

<sup>1)</sup> The number indicates the required number of flap hinges.

Vertical use <sup>1)</sup>

door height (mm)	hinges						cup hinges						
	weight of the door (kg)	design <sup>1)</sup>						weight of the door (kg)	design <sup>1)</sup>				
A		B	C	D	E	F	A		B	C	D	E	F
330–380	2.5–2.9	1					2.6–3.1	1					
	4.1–5.9	1					4.4–5.5	1					
	5.3–7.3			1			6.3–8.5			1			
	8–11				1		7.5–9.3				1		
230–270	2.2–2.5	1					2.1–2.5	1					
	3.3–4.8	1					3.4–4.5	1					
	4.1–4.8	2					4–4.8	2					
	4.2–6			1			4.5–5.6			1			
	6.6–8.6				1		6.8–8.6				1		
	6.8–9.6	2					6.8–9.2	2					
270–330	1.9–2.3	1					2–2.3	1					
	3.2–4.5		1				3–4.9		1				
	3.4–4.3	2					3.5–4.5	2					
	3.8–5.1			1			3.7–5.1			1			
	5.7–7.3				1		5.4–7.1				1		
	6.1–8					1	6.1–7.3					1	
	6.3–8.1	2					6.1–7.7	2					
	7.9–11.1			2			7.7–10.1			2			
	11.3–14.5				2		10.5–13.7				2		
	12.9–15.5					2	12.1–14.5					2	

<sup>1)</sup> The number indicates the required number of flap hinges.



**Vertical use <sup>1)</sup>**

door height (mm)	hinges						cup hinges								
	weight of the door (kg)	design <sup>1)</sup>						weight of the door (kg)	design <sup>1)</sup>						
		A	B	C	D	E	F		A	B	C	D	E	F	
<b>330-380</b>	2.6-3.4	1						2.5-3.6	1						
	3.3-4.5			1				3.2-4.3		1					
	4.9-6.3				1			4.6-6.1			1				
	5-6.5	2						4.9-6.4				1			
	5.3-6.5					1		5.1-6.9	2						
	6.7-7.3						1	6.3-7.3							1
	7.3-8.5			2				6.6-9.3		2					
	9.7-11.7				2			9.1-11.3			2				
	10.7-12.9					2		10.5-12.9					2		
	13.3-14.9						2	12.5-14.5							2
<b>380-430</b>	2.5-3.4	1						2.3-3.2	1						
	3.2-4.2			1				3-4		1					
	4.4-5.4				1			4.4-5.4			1				
	4.8-5.6					1		4.4-6.6	2						
	5-6.2	2						4.6-5.6					1		
	5.9-6.6						1	5.5-6.4							1
	6.2-8.2			2				6.6-8.2		2					
	8.6-10.6				2			8.4-10.2				2			
	9.8-11.4					2		9.4-11.4					2		
	11.8-13						2	11-13							2
<b>430-460</b>	2.3-3	1						2.3-3	1						
	3-3.8		1					2.8-3.6		1					
	4-5.2				1			4.2-5.2			1				
	4.6-5.4					1		4.2-6.2	2						
	4.6-6.2	2						4.4-5.4					1		
	5.6-6						1	5.2-6							1
	6.2-7.8			2				5.4-7.6		2					
	7.8-10.2				2			7.4-9.4				2			
	9-10.4					2		8.4-10.6					2		
	11.4-12.2						2	10.6-12.2							2
<b>460-480</b>	2.4-3.2	1						2.3-3	1						
	2.8-4			1				2.8-3.6		1					
	3.8-5				1			4-5.2			1				
	4.5-5.4					1		4.2-6.2	2						
	4.6-6	2						4.4-5.4					1		
	5.4-6						1	5.2-6							1
	5.6-7.8			2				5.4-7.6		2					
	7.6-10				2			7.2-9.4				2			
	8.8-10.4					2		8.4-10.6						2	
	10.8-11.6						2	10.4-11.6							2

<sup>1)</sup> The number indicates the required number of flap hinges.



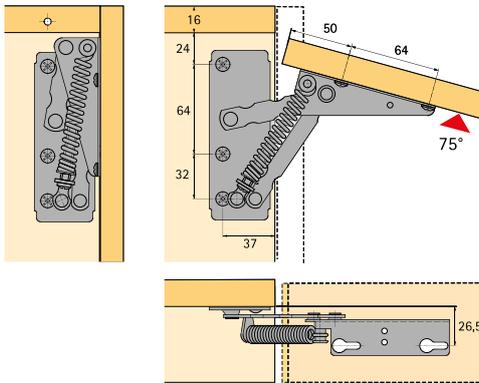
## Lift exact, opening angle 75°

code	Hettich code	description
<b>108270</b>	40721	Lift exact

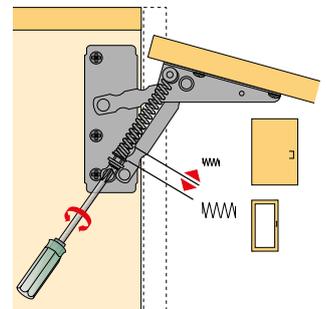
- spring force is adjustable to 220 N depending on door weight
- max. door weight: 4.6 kg
- practical mounting into pre-drilled holes
- nickel-plated steel



example of use



For dimensions indicated in the picture, the closed folding doors are aligned with the top.



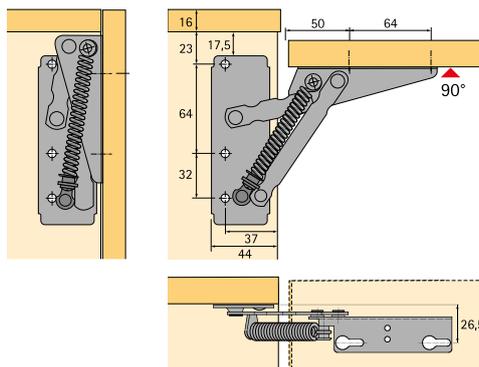
## Lift 90, opening angle 90°

code	Hettich code	description
<b>108283</b>	79389	spring force 180 N
<b>108284</b>	10921	spring force 80–220 N

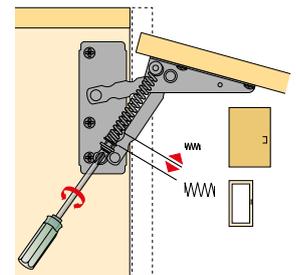
- Lift 90: spring force 180 N, max. door weight 3.3 kg
- Lift 90: spring force 80–220 N, max. door weight 4.6 kg
- practical mounting into pre-drilled holes
- nickel-plated steel



example of use



For dimensions indicated in the picture, the closed folding doors are aligned with the top.



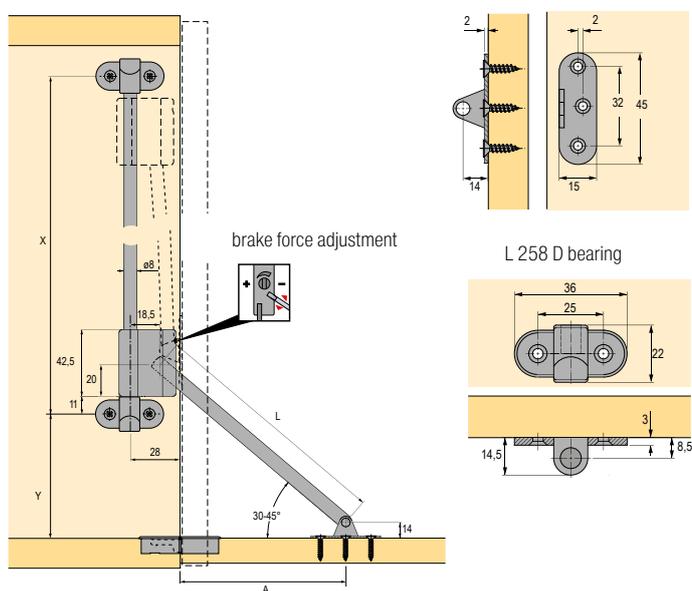


## Brake for Klassik D flap door with L 258 D bearing

code	Hettich code	description
<b>104117</b>	16173	Klassik D/300, cabinet internal height 300–350 mm

- high quality, braking system with fine adjustment without maintenance demands
- guide bar, draw bar and foot: nickel-plated steel
- body and bearing: nickel-coated zinc casting

assembly manual



fixed with screws diameter 3.5 mm DIN 95 / DIN 97 with countersunk head

item	internal height of the cabinet (mm)	mounting dimensions (mm)			
		x	y	a	l
Klassik D / 300	300–350	182	100	88	153

## KH folding fittings

code	Hettich code	description
<b>104344</b>	13233	length 200 mm
<b>104345</b>	13235	length 250 mm

- with body and foot for screwing-on
- nickel-plated steel

example of use

