TIP-ON for AVENTOS HK
The mechanical opening support system for handle-less stay lifts
Simply press and it opens
Easy of opening
for handle-less stay lifts

Whether it’s the kitchen, bathroom, living room or bedroom – handle-less furniture has long been a popular element in modern furniture design. TIP-ON, our mechanical opening support system, makes it easy to open handle-less furniture (now also available for our AVENTOS HK fitting). Just a brief touch – and handle-less stay lifts open: This is surprisingly easy and very practical especially in the kitchen.

Content

4 Functionality that inspires
6 Components:
8 Assembly and adjustment
10 Order specification
12 Planning information
15 Assembly
16 TIP-ON is a versatile product
18 Perfecting motion
Functionality that inspires
Functional opening and secure closing

Opening handle-less stay lifts is very easy and effortless with TIP-ON for AVENTOS HK: Just press on the furniture front and the lift system opens far enough so that it can be easily moved upwards by hand.

To close, all you need do is press lightly on the lift system. The TIP-ON unit includes a magnetic catch plate that is attached to the inside of the front ensuring secure closing.

TIP-ON for the entire kitchen
Handle-less stay lifts can now also be opened with TIP-ON along with handle-less doors and pull-outs. The AVENTOS HK lift mechanism has been specially designed for TIP-ON. Whether it’s the bathroom, living room or bedroom – the functional opening comfort of TIP-ON also inspires in other living areas.

TIP-ON – user-friendly and high quality

■ The TIP-ON mechanism remains undamaged even when the lift system is raised manually.
■ This innovative Blum solution is made of high-quality components and will last for the lifetime of the furniture.
Components:

All TIP-ON for AVENTOS HK components at a glance

1a TIP-ON unit for drilling
1b TIP-ON unit horizontal adapter plate
1c TIP-ON unit cruciform adapter plate
2 Screw-on catch plate
The mechanical opening support system for the AVENTOS HK stay lift is characterised by a manageable programme. All common stay lift dimensions can be implemented.

The TIP-ON unit comes in two versions: a standard version for cabinet heights under 500 mm and a long version for cabinets 500 mm and higher.

Note

The glue-on catch plate should not be used in combination with TIP-ON for AVENTOS HK.
For assembly with an adapter plate, the plate is attached to the centre of the cabinet bottom panel. Our drilling template makes this quite simple.

After removing the transportation lock, the lever on the lift mechanism can be opened.

We have even paid attention to extremely easy assembly for TIP-ON for AVENTOS HK – as with all of our other products. The assembly of individual parts takes just a few steps.

Assembly and adjustment

Assembly in just a few steps

1. TIP-ON assembly is carried out in the centre of the cabinet bottom panel. Our drilling template makes this quite simple.

2. For assembly with an adapter plate, the plate is attached to the centre of the cabinet bottom panel.

3. The TIP-ON unit can also be attached to the side of the cabinet panel.

4. The screw-on catch plate is screwed in by hand.

5. The lift mechanism is attached quickly and easily to the cabinet.

6. After removing the transportation lock, the lever on the lift mechanism can be opened.
There is a danger of injury if the lever springs upward. After opening, do not push down on the lever.

Special warning and safety information must be added for use in North America.

Perfect motion requires a precise setting:

The fine adjustment to the opening and closing forces on the lift mechanism is made using an electric screwdriver (Pozidriv®, size 2, length 39 mm).

If the lift system falls when let go, it must be turned to the right.

If the lift system rises when let go, it must be turned to the left.

The front can be set in 3-dimensions by hand.
Order specification

This is how it’s done: Power factor = cabinet height (KH) [mm] x door weight

4 types of lift mechanisms are enough to cover a wide range of applications.

Using the power factor, you can calculate the required lift mechanisms. The power factor required depends on the weight of the front and the cabinet height.

When using a third lift mechanism (a power factor increase of up to 50 %), we recommend a trial application.

---

**LF Power factor**

<table>
<thead>
<tr>
<th>Lift mechanism two-sided</th>
<th>LF 750–2.500</th>
<th>LF 3.200–9.000</th>
</tr>
</thead>
<tbody>
<tr>
<td>20K2500T</td>
<td>20K2700T</td>
<td>20K2900T</td>
</tr>
<tr>
<td>LF 480–1.500</td>
<td>LF 1.500–4.900</td>
<td></td>
</tr>
</tbody>
</table>

A trial application is recommended when you are in a borderline area for the individual lift mechanism.

**Lift mechanism set**

<table>
<thead>
<tr>
<th>1</th>
<th>Lift mechanism set</th>
<th>Power factor LF</th>
<th>Opening angle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>480–1.500</td>
<td>107°</td>
<td>20K2300T</td>
</tr>
<tr>
<td></td>
<td>750–2.500</td>
<td>107°</td>
<td>20K2500T</td>
</tr>
<tr>
<td></td>
<td>1.500–4.900</td>
<td>107°</td>
<td>20K2700T</td>
</tr>
<tr>
<td></td>
<td>3.200–9.000</td>
<td>100°</td>
<td>20K2900T</td>
</tr>
</tbody>
</table>

Max. door weight 18 kg for two lift mechanisms

Composed of:

- 2 x symmetrical lift mechanisms
- 6 x chipboard screws, Ø 4 x 35 mm
### 2 Cover cap set
- **Light grey, silk white, nickel-lacquered**
- **Composed of:**
  - 2a: 2 x cover plates left/right
  - 2b: 2 x cover caps small

### 3 Front fixing bracket set
- **Nickel plated**
- **Wooden fronts and wide alu frames**
- **Narrow alu frames**
- **Composed of:**
  - 2 x symmetrical front fixing brackets

### 4a TIP-ON "standard" set
- **For drilling Ø 10 x 50 mm**
- **RAL 7037 nylon, dust grey**
- **With magnet**
- **Output path approx. 18 mm**
- **For fronts up to a height of 500 mm**
- **Incl. glue-on and screw-on catch plates**

### 4b TIP-ON "long version" set
- **For drilling Ø 10 x 76 mm**
- **RAL 7037 nylon, dust grey**
- **With magnet**
- **Output path approx. 38 mm**
- **For front heights over 500 mm**
- **Incl. glue-on and screw-on catch plates**

### 5 Adapter plate
- **Horizontal adapter plate**
- **Zinc, nickel plated**
- **Nylon 7036 platinum grey**
- **Cruciform adapter plate**
- **Nylon 7036 platinum grey**
- **Screw-on**
- **EXPANDO**
- **TIP-ON must be ordered separately**
- **Assembly with chipboard screws Ø 3.5 mm or Ø 4mm**

### Opening angle stop
- **Nylon**
- **100°: 2 x 20K7041**
- **75°: 2 x 20K7011**

### Universal individual template
- **For pre-drilling peg positions for all AVENTOS lift mechanism types**
- **65.1051.01**

### Drilling template
- **For drilling TIP-ON**
- **65.5010**

### Template
- **To pre-drill fixing positions of adapter plates**
- **65.5310**

### Catch plate positioning template
- **For determining the screw-on position of the TIP-ON catch plate**
- **65.5210**

### Bit PZ cross slot
- **Size 2, length 39 mm**
- **BIT-PZ KS2**

---

1. Use 4 chipboard screws (609.1x00) for wooden fronts. Use 4 counter sunk self tapping screws (660.0850) for wide alu frames.

Notice: The glue-on catch plate should not be used in combination with TIP-ON for AVENTOS HK.
**Planning information**

<table>
<thead>
<tr>
<th>Peg positions for lift mechanism</th>
<th>Fixing positions for lift mechanism</th>
<th>Space requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Diagram of peg positions" /></td>
<td><img src="image2.png" alt="Diagram of fixing positions" /></td>
<td><img src="image3.png" alt="Diagram of space requirement" /></td>
</tr>
</tbody>
</table>

- **Peg positions for lift mechanism**
  - *Drilling depth 5 mm
  - **SOB** Top panel thickness

- **Fixing positions for lift mechanism**
  - *left ** right
  - 3 x Ø 4 x 35 mm

- **Space requirement**
  - * min. 261 with visible wall hanging bracket

---

### Front assembly

- **Narrow alu frames**
- **Wooden fronts and wide alu frames**

**Wall application:** Requires 5 mm min. gap

- **SOB** Top panel thickness
- **F** Gap
- **SFA** Side front overlay

**Planning narrow alu frames**

- **SFA** Side front overlay

For frame width 19 mm, a **SFA** of 11–18 mm is possible

**When changing material thickness, adjust the assembly dimensions accordingly**

---

### Cornice and crown moulding clearance

<table>
<thead>
<tr>
<th><strong>D (mm)</strong></th>
<th>16</th>
<th>19</th>
<th>22</th>
<th>26</th>
<th>28</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>X (mm)</strong></td>
<td>70</td>
<td>59</td>
<td>49</td>
<td>35</td>
<td>26</td>
</tr>
</tbody>
</table>

- **Without OEB**
  - \(Y = FH \times 0.29 - 15 + D\)
- **OEB 100°**
  - \(Y = FH \times 0.17 - 15 + D\)
- **OEB 75°**
  - \(A = FH \times 0.26 + 15 - D\)
- **OEB** = Opening angle stop

---

### Minimum gap

**MF** Minimum gap for opening (2 mm)

---

### Cabinet assembly

---

1) Use 4 chipboard screws (609.1x00) for wooden fronts. Use 4 counter sunk self tapping screws (660.0950) for wide alu frames.
### TIP-ON fixing position

<table>
<thead>
<tr>
<th>Standard</th>
<th>Long version</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1" alt="Diagram" /></td>
<td><img src="image2" alt="Diagram" /></td>
</tr>
</tbody>
</table>

For fronts up to a height of 500 mm For front heights over 500 mm

### TIP-ON installation dimension

<table>
<thead>
<tr>
<th>Standard</th>
<th>Long version</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image3" alt="Diagram" /></td>
<td><img src="image4" alt="Diagram" /></td>
</tr>
</tbody>
</table>

* Factory setting = 2 mm

* min. 3.1 mm with screw-on catch plate

### Adapter plate fixing position

<table>
<thead>
<tr>
<th>Horizontal adapter plate</th>
<th>Cruciform adapter plate</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5" alt="Diagram" /></td>
<td><img src="image6" alt="Diagram" /></td>
</tr>
</tbody>
</table>

* Factory setting = 2 mm

### Adapter plate installation dimension

<table>
<thead>
<tr>
<th>Horizontal adapter plate</th>
<th>Cruciform adapter plate</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image7" alt="Diagram" /></td>
<td><img src="image8" alt="Diagram" /></td>
</tr>
</tbody>
</table>

* Factory setting = 2 mm
**Screw-on catch plate planning**

<table>
<thead>
<tr>
<th>Diagram</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Diagram" /></td>
<td>For drilling</td>
</tr>
<tr>
<td><img src="image2.png" alt="Diagram" /></td>
<td>Horizontal adapter plate</td>
</tr>
<tr>
<td><img src="image3.png" alt="Diagram" /></td>
<td>Cruciform adapter plate</td>
</tr>
</tbody>
</table>

* We recommend setting back the positioning of TIP-ON by 3 mm for the screw-on catch plate.

FAU = Lower front overlay
# Assembly

## For drilling

<table>
<thead>
<tr>
<th>Assembly</th>
<th>Screw-on catch plate</th>
</tr>
</thead>
</table>

## Horizontal adapter plate

<table>
<thead>
<tr>
<th>Assembly</th>
<th>Screw-on catch plate</th>
</tr>
</thead>
</table>

## Cruciform adapter plate

<table>
<thead>
<tr>
<th>Assembly</th>
<th>Screw-on catch plate</th>
</tr>
</thead>
</table>

## Adjustment

<table>
<thead>
<tr>
<th>-1.5</th>
<th>+4.5</th>
</tr>
</thead>
<tbody>
<tr>
<td>-1.5</td>
<td>+4.5</td>
</tr>
</tbody>
</table>
TIP-ON is versatile

Always a reliable handle-less solution

TIP-ON for AVENTOS HK provides functional, mechanical opening support for stay lifts. With versatile application options, it rounds off our product line for easy opening of handle-less furniture. It provides an opening support system for pull-outs, doors and lift systems – in other words for the entire living area.

TIP-ON – Advantages at a glance:
- Easy to open with just a touch
- Secure closing by pushing
- Easy assembly and adjustment

For more information and to download our brochures, go to:
www.blum.com
Comfort for the wall and base cabinet

Other TIP-ON solutions for functional opening comfort:

**TIP-ON for TANDEMBOX**
The solution for steel handle-less pull-out systems is characterised by extreme ease. A light touch is enough and the handle-less pull-outs open easily and effortlessly.

**TIP-ON for TANDEM**
The mechanical ease of opening of TIP-ON is also available for handle-less wooden pull-outs and drawers.

**TIP-ON for doors**
The same opening comfort available for handle-less metal and wooden pull-out systems is also available for handle-less doors. Simply press.
Perfecting motion
Blum turns the opening and closing of furniture into an experience that significantly increases the comfort of motion in the kitchen. Several thousand employees are continually working worldwide implementing our concept of perfect motion. Within this process, we place the needs of the kitchen user as the focus of our actions. We are only satisfied when the kitchen user is satisfied. All of our partners who participate in the furniture making process profit from this focus.

For over 50 years, quality has been the highest principle for the development and manufacture of our products. Our fittings systems shout “high quality” with their well-thought-out function, recognised design and high durability. They are designed to inspire and trigger fascination for perfect motion. We also set the bar very high for the services we offer. They must provide the best possible support to our partners.

So that we can target our efforts at all levels, we are in a constant dialogue with kitchen users and regularly exchange information with furniture manufacturers, joiners and distributors.