Blum 110° BLUMotion Inset
Face Frame Hinge Instructions
Effective September 2018

<table>
<thead>
<tr>
<th>Finish</th>
<th>Tab</th>
<th>Cup Diameter</th>
<th>Cup Depth</th>
<th>Minimum Door Thickness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel</td>
<td>5mm</td>
<td>35mm</td>
<td>13mm</td>
<td>16mm (.63&quot;)</td>
</tr>
<tr>
<td>Maximum Door Thickness</td>
<td>Adjustments</td>
<td>Gap</td>
<td>Clip-on Mounting</td>
<td>Minimum Reveal</td>
</tr>
<tr>
<td>26mm (1&quot;)</td>
<td>3-way cam</td>
<td>NA</td>
<td>Yes</td>
<td>.5mm</td>
</tr>
</tbody>
</table>

Review full manual instructions prior to use for important safety information. Always check Rockler.com to confirm that you are using the most recent manual version for your product.
GENERAL SAFETY WARNINGS

This product is designed only for specific applications as defined in the instructions and should not be modified or used for any manner not described in these instructions. Use only recommended accessories. Before using the Blum 110° BLUMotion Inset Face Frame Hinge: READ, UNDERSTAND and FOLLOW ALL INSTRUCTIONS AND SAFETY WARNINGS. KEEP THESE INSTRUCTIONS READILY AVAILABLE FOR FUTURE REFERENCE.

> Always confirm that you are using the most recent version of the Instructions and safety warnings for your product (see the Instructions link on the product page at Rockler.com).

> Before using another tool with this product, always read, understand and follow the instructions and safety warnings in the owner’s manual for that tool. If you do not have the owner’s manual, obtain one from the tool’s manufacturer before using it with this product.

> Before using any chemical with this product, always read, understand and follow all safety warnings and guidelines in the manufacturer’s Safety Data Sheet (SDS; formerly called “MSDS”), especially regarding:
  - How to safely use the chemical, including potential hazards and recommended first aid measures;
  - Personal safety equipment required to safely use the chemical (e.g. gloves, eye protection, mask/respirator, etc.);
  - Proper and safe handling, storage and disposal of the chemical.

> Before using this product, review and verify that all tools to be used with it have safety equipment installed and are in proper working order as defined by the tool’s owner’s manual.

> Do not use this product until you have read and are confident you understand:
  - Vertical Positioning of the Hinges (p. 4);
  - Installing Hinges (p. 5);
  - Installing Mounting Plates (p. 5);
  - Height Adjustment (p. 6-7);
  - Lateral Adjustment (p. 6-7);
  - Depth Adjustment (p. 6-7);
  - BLUMotion Soft Close On/Off Switch (pp. 6-7);
  - Optional Accessories (p. 7).

> The user assumes all risk and responsibility for the proper and safe use of this product and for ensuring product suitability for the intended application.

> It is the sole responsibility of the purchaser of this product to ensure that any anyone you allow to use this product reads and complies with all instructions and safety precautions outlined in this manual prior to use.

> Follow all standard shop safety practices, including:
  - Keep children and bystanders away from the tool operating area;
  - Do NOT use power tools in explosive environments, or in the presence of flammable liquids, fumes or dust;
  - TURN OFF AND UNPLUG all power tools BEFORE making any adjustments or changing accessories;
  - Remain alert and use good judgment. Do not use this product if you are in any way impaired by medications, alcohol, drugs or fatigue;
  - Keep your work area well lit and clean;
  - Dress appropriately. Secure loose clothing, remove all jewelry and tie up long hair before using this product;
  - ALWAYS wear safety glasses, hearing protection and respiratory protection that complies with NIOSH/OSHA/ANSI safety standards;
  - Use dust collection tools and dust face masks to reduce exposure to dust;
  - Use safety equipment such as featherboards, push sticks and push blocks, etc., when appropriate;
  - Maintain proper footing at all times and do not overreach;
  - Do NOT force woodworking tools.

> These warnings and instructions do NOT represent the total of all information available regarding tool safety, use and technique. Always seek out opportunities to learn more and improve your skills and knowledge.

⚠️ WARNING: Drilling, sawing, sanding or machining wood products can expose you to wood dust, a substance known to the State of California to cause cancer. Avoid inhaling wood dust or use a dust mask or other safeguards for personal protection. For more information go to www.P65Warnings.ca.gov/wood.
<table>
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<tr>
<th><strong>SAFETY WARNING KEY</strong></th>
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<td><strong>WARNING</strong></td>
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<td><strong>NOTICE</strong></td>
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Vertical Positioning of Hinges

Although Euro-style concealed hinges allow for vertical adjustment, the mounting plate must line up with the hinge arm if the two are to snap together and provide the maximum possible adjustment range. The easiest way to accomplish this is to mark aligning horizontal centerlines on both the door and the cabinet face frame. You need to consider the amount of the door’s overlay or inset when calculating the centerline positions for the door.

1. For the top hinge, measure down from the top of the cabinet opening to the desired mounting location (typically 2”-3”) and use a combination square to mark the horizontal centerline on the back of the face frame. (For the bottom hinge, measure up from the bottom of the cabinet opening.)

2. To determine the centerline location on the door, start with the distance you measured in Step 1 and subtract the amount of the reveal at that edge.

3. Use the values calculated for the top and bottom hinge locations in Step 2 and mark the horizontal centerlines on the back of the door. Compare the distance between the lines on the face frame with the distance between the lines on the door to verify.

NOTICE Be sure your hinge positions will provide adequate clearance for any pullouts.
Installing Hinges

1. Refer to the Door Diagram to mark drilling locations for the hinge cup holes and mounting screw holes on the door.

2. Using a 35mm Forstner bit, drill a hole 13mm deep for the hinge cup, taking care to keep the bit as square as possible to the door.

3. Drill pilot holes for the screws, taking care not to drill all the way through.

4. Position the hinge cup in the hole and use the included screws to secure in place.

5. Repeat Steps 2-4 at other hinge location(s).

Installing Mounting Plates

1. Refer to the Face Frame Diagram to mark drilling locations for the hinge plates on the back of the face frame.

2. Drill pilot holes for the mounting screws, taking care not to drill all the way through.

3. Use the included screws to secure the mounting plates onto the face frame.

4. Mount the doors by clipping the hinge arms onto the mounting plates.

For fast, easy and accurate location and drilling of hinge cup holes, we recommend using the Jig-It® Deluxe Concealed Hinge Drilling System (53420, sold separately) along with a Rockler 35mm Long-Shank Forstner Bit (10104, sold separately). For those using a drill press, a dedicated Jig-It® setup block is available (58488, sold separately).

For fast, easy and accurate location and drilling of mounting plate pilot holes, we recommend using the Jig-It® Template B Hinge Drilling Jig (57706, sold separately) along with a Rockler/Insty-Drive #6 Self-Centering Bit (68991, sold separately).
Height Adjustment
Turning the screw shown in Fig. 1 clockwise adjusts the door down; counterclockwise, up.

Lateral Adjustment
Turning the screw shown in Fig. 2 clockwise adjusts the door to the right; counterclockwise, to the left.

Depth Adjustment
Turning the screw shown in Fig. 3 clockwise adjusts the door inward; counterclockwise, outward.

BLUMotion Soft Close On/Off Switch
The soft-close function can easily be deactivated with this switch. On small or light doors, one hinge can be deactivated to allow the same smooth closing motion. Fig. 4.

Check Rockler.com for updates. If you have further questions, please contact our Technical Support Department at 1-800-260-9663 or support@rockler.com