### Full extension concealed runners

<table>
<thead>
<tr>
<th>Basic components</th>
<th>Locking devices</th>
<th>Runners</th>
<th>Rear attachment options</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Basic components image" /></td>
<td><img src="image2.png" alt="Locking devices image" /></td>
<td><img src="image3.png" alt="Runners image" /></td>
<td><img src="image4.png" alt="Rear attachment options image" /></td>
</tr>
</tbody>
</table>

#### Side-to-side adjustment

**1** Rotate side-to-side adjustment left or right equally on both locking devices. Drawer front moves in the same direction as rotation.

![Side-to-side adjustment image](image5.png)

**NOTE:** Side-to-side adjustment not available on T51.x8xx locking devices

#### Rear side-to-side adjustment

**2** After front side-to-side adjustment is made with the locking devices, rotate the rear side-to-side adjustment left or right to re-align the back of the drawer box with the front. Drawer back moves in the same direction as rotation.

![Rear side-to-side adjustment image](image6.png)

#### Height adjustment

**1** Press up on adjustment tab

**2** Push towards back of drawer

**Maximum** 3 (1/8”) rise of drawer front (tool-free)

**NOTE:** Height and tilt adjustments available with all combinations of locking devices and runners

#### Tilt adjustment

**Rotate the tilt adjustment lever on the rear of each runner to lift the back of the drawer and tilt the top of the drawer front forward**

![Tilt adjustment image](image7.png)

**Maximum** 5 (3/16”) rise of drawer back (tool-free)

#### Depth adjustable locking device

- **Locking device**
  - T51.1901.PS
  - with side-to-side, height and depth adjustment

- **Turning the adjustment screw allows for up to a +2.5 (3/32”) out adjustment**

**NOTE:** For T51.1901.PS setback in inset applications, see page 5

#### Depth adjustment on runner

- **TANDEM 563 runners feature elongated holes that allow ±4.5 (3/16”) depth adjustment**

**Dimensions in millimeters (inch equivalents as noted)**
**Drawer specifications**

**Drawer box specifications**

**Front view**

- **Opening width**
- **Outside drawer width**
- **Opening width minus 42**
- **Drawer side thickness**
  - Maximum 16 (5/8")
  - Minimum 10 (7/32")

**Dimensions**

- 32 (1-5/32")
- 21 (13/16")
- 13 (1/2")
- 14 (9/16")

**NOTE:** Drawer side material thickness may vary. Accurate measurement of drawer side material thickness should be used when calculating outside drawer width using the table below. Inside drawer width must equal opening width minus 42 (1-21/32") for TANDEM to align and function optimally.

**Calculating outside drawer width**

<table>
<thead>
<tr>
<th>For drawer side thickness</th>
<th>16 (5/8&quot;)</th>
<th>15 (19/32&quot;)</th>
<th>14 (9/16&quot;)</th>
<th>13 (1/2&quot;)</th>
<th>12 (15/32&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deduct from opening width</td>
<td>10 (13/32&quot;)</td>
<td>12 (15/32&quot;)</td>
<td>14 (9/16&quot;)</td>
<td>16 (5/8&quot;)</td>
<td>18 (23/32&quot;)</td>
</tr>
</tbody>
</table>

**Example:** For 21" opening width and a 5/8" thick drawer, 21" minus 13/32" = 20-19/32" drawer width

**Drawer insertion**

Extend the concealed runners fully. Place the drawer on the runners and close. The locking devices automatically engage with the runners. Make adjustments if necessary.

**Preparation for hardware installation**

**Drawing**

**Pre-boring holes** for locking devices

**Installation screw** 606N or 606P

**Locking device** T51.1901 with side-to-side adjustment or T51.1801 without side-to-side adjustment

**NOTE:** Use of the T65.1600.01 TANDEM template is essential for accurate location and angle of pre-bored locking device holes and accurate boring for rear hook holes.

**Drawer removal**

1. Squeeze orange handles on locking devices
2. Pull drawer straight out and up
Face frame application

**Runner mounting specifications**

**Side view**

<table>
<thead>
<tr>
<th>610 (24&quot;)</th>
<th>563H3050B</th>
<th>305 (12&quot;) drawer</th>
</tr>
</thead>
<tbody>
<tr>
<td>610 (24&quot;)</td>
<td>563H3810B</td>
<td>381 (15&quot;) drawer</td>
</tr>
<tr>
<td>533 (21&quot;)</td>
<td>457 (18&quot;) drawer</td>
<td></td>
</tr>
<tr>
<td>563.4570B</td>
<td>381 (15&quot;)</td>
<td></td>
</tr>
<tr>
<td>305 (12&quot;)</td>
<td>299 (11-25/32&quot;)</td>
<td>229 (9&quot;) drawer</td>
</tr>
<tr>
<td>563H2290B10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Detail of front holes**

- 25 (31/32")
- 37 (1-15/32")
- 34 (1-11/32")
- 9 (11/32") typical
- 7 (9/32")
- 32 (1-1/4")

**Cabinet and drawer specifications**

**Side view**

- 563H5330B 533 (21") drawer
- 563.5330B 533 (21") drawer
- 563H4570B 457 (18") drawer
- 563.4570B 457 (18") drawer
- 563H3810B 381 (15") drawer
- 563H3050B 305 (12") drawer
- 563H2290B10 229 (9") drawer

**TANDEM plus BLUMOTION**

<table>
<thead>
<tr>
<th>Cabinet depth</th>
<th>Inside cabinet depth</th>
<th>Drawer length</th>
<th>Maximum drawer thickness</th>
<th>Runner length</th>
</tr>
</thead>
<tbody>
<tr>
<td>563H5330B</td>
<td>610 (24&quot;)</td>
<td>557 (21-15/16&quot;)</td>
<td>557 (21-15/16&quot;)</td>
<td>533 (21&quot;)</td>
</tr>
<tr>
<td>563.5330B</td>
<td>610 (24&quot;)</td>
<td>—</td>
<td>557 (21-15/16&quot;)</td>
<td>533 (21&quot;)</td>
</tr>
<tr>
<td>563H4570B</td>
<td>533 (21&quot;)</td>
<td>457 (18&quot;)</td>
<td>457 (18&quot;)</td>
<td>471 (18-17/32&quot;)</td>
</tr>
<tr>
<td>563.4570B</td>
<td>533 (21&quot;)</td>
<td>457 (18&quot;)</td>
<td>471 (18-17/32&quot;)</td>
<td></td>
</tr>
<tr>
<td>563H3810B</td>
<td>457 (18&quot;)</td>
<td>446 (17-9/16&quot;)</td>
<td>431 (15&quot;)</td>
<td>395 (15-9/16&quot;)</td>
</tr>
<tr>
<td>563H3050B</td>
<td>381 (15&quot;)</td>
<td>370 (14-9/16&quot;)</td>
<td>305 (12&quot;)</td>
<td>319 (12-9/16&quot;)</td>
</tr>
<tr>
<td>563H2290B10</td>
<td>305 (12&quot;)</td>
<td>299 (11-25/32&quot;)</td>
<td>266 (10-15/32&quot;)</td>
<td>229 (9&quot;)</td>
</tr>
</tbody>
</table>

**NOTE:** For 563 series runners rear brackets and sockets cannot be used. Cabinet sides must be blocked-out flush with the inside of the frame.

**Bracket**

- 295.3700.21 282 (11-3/32")
- 295.3700.22 299 (11-25/32")

**NOTE:** Orange dots indicate screw locations required to meet specified load capacities

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**Panel application**

**Runner mounting specifications**

**Side view**

- **610 (24") cabinet**
  - Mounting position 37 (1-15/32")
  - Cabinet face
  - 563H5330B: 533 (21") drawer
  - 563.5330B: 533 (21") drawer
  - 563H4570B: 457 (18") drawer
  - 563.4570B: 457 (18") drawer
  - 563H3810B: 381 (15") drawer
  - 563H3050B: 305 (12") drawer
  - 563H2290B10: 229 (9") drawer

**Cabinet and drawer specifications**

**Side view**

- Cabinet depth
- Minimum inside cabinet depth
- Drawer length
- Maximum drawer thickness
- Runner length

<table>
<thead>
<tr>
<th>TANDEM plus BLUMOTION</th>
<th>Cabinet depth</th>
<th>Minimum inside cabinet depth</th>
<th>Drawer length</th>
<th>Maximum drawer thickness</th>
<th>Runner length</th>
</tr>
</thead>
<tbody>
<tr>
<td>563H330B</td>
<td>610 (24&quot;)</td>
<td>557 (21-15/16&quot;)</td>
<td>533 (21&quot;)</td>
<td>457 (18&quot;)</td>
<td>548 (21-9/16&quot;)</td>
</tr>
<tr>
<td>563.5330B</td>
<td>610 (24&quot;)</td>
<td>557 (21-15/16&quot;)</td>
<td>533 (21&quot;)</td>
<td>457 (18&quot;)</td>
<td>548 (21-9/16&quot;)</td>
</tr>
<tr>
<td>563H4570B</td>
<td>457 (18&quot;)</td>
<td>480 (18-29/32&quot;)</td>
<td>457 (18&quot;)</td>
<td>381 (15&quot;)</td>
<td>471 (18-17/32&quot;)</td>
</tr>
<tr>
<td>563.4570B</td>
<td>457 (18&quot;)</td>
<td>480 (18-29/32&quot;)</td>
<td>457 (18&quot;)</td>
<td>381 (15&quot;)</td>
<td>471 (18-17/32&quot;)</td>
</tr>
<tr>
<td>563H3810B</td>
<td>381 (15&quot;)</td>
<td>328 (12-29/32&quot;)</td>
<td>305 (12&quot;)</td>
<td>266 (10-15/32&quot;)</td>
<td>319 (12-9/16&quot;)</td>
</tr>
<tr>
<td>563H3050B</td>
<td>305 (12&quot;)</td>
<td>266 (10-15/32&quot;)</td>
<td>229 (9&quot;)</td>
<td>259 (10-3/16&quot;)</td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Orange dots indicate screw locations required to meet specified load capacities.

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Inset application

**Face frame application – complete blockout**

**Side view**
- Runner setback (see table)
- Trial recommended
- Blocking behind frame
- Inside cabinet depth
  - Minimum = runner length + setback + 6 (1/4")

**Face frame application – partial blockout**

**Side view**
- Runner setback (see table)
- Trial recommended
- Blocking behind frame
- Inside cabinet depth range
  - Minimum = runner length + setback + 6 (1/4")
  - Maximum with bracket = runner length + setback + 48 (1-7/8")

**Panel application**

**Side view**
- Runner setback (see table)
- Trial recommended
- Inside cabinet depth
  - Minimum = runner length + setback + 6 (1/4")

**Inset application**

**Setback information**

**Side view**
- Runner setback
- Drawer front
- Drawer sub-front

**NOTE:** Runner cannot be mounted below opening

**Panel application**

**Runner setback when using depth adjustable locking device (T51.1901.PS)**

<table>
<thead>
<tr>
<th>Sub-front thickness</th>
<th>563/569 H/.</th>
<th>Runner setback</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 (1/2&quot;)</td>
<td>20 (25/32&quot;)</td>
<td>23 (29/32&quot;)</td>
</tr>
<tr>
<td>16 (5/8&quot;)</td>
<td>23 (29/32&quot;)</td>
<td>26 (1-1/32&quot;)</td>
</tr>
<tr>
<td>19 (3/4&quot;)</td>
<td>26 (1-1/32&quot;)</td>
<td>29 (1-5/32&quot;)</td>
</tr>
</tbody>
</table>

**Sub-front thickness**
- 19 (3/4")
- 22 (7/8")

**Drawer front thickness**
- Calculating runner setback
- 563/569 H/. Sub-front thickness + drawer front thickness minus 9 (11/32")

**Runner setback when using all other locking devices**

<table>
<thead>
<tr>
<th>Sub-front thickness</th>
<th>563/569 H/.</th>
<th>Runner setback</th>
</tr>
</thead>
<tbody>
<tr>
<td>13 (1/2&quot;)</td>
<td>17.5 (11/16&quot;)</td>
<td>20.5 (13/16&quot;)</td>
</tr>
<tr>
<td>16 (5/8&quot;)</td>
<td>20.5 (13/16&quot;)</td>
<td>23.5 (15/16&quot;)</td>
</tr>
<tr>
<td>19 (3/4&quot;)</td>
<td>23.5 (15/16&quot;)</td>
<td>26.5 (1-1/32&quot;)</td>
</tr>
</tbody>
</table>

**Sub-front thickness**
- 16 (5/8")
- 19 (3/4")
- 22 (7/8")

**Drawer front thickness**
- Calculating runner setback
- 563/569 H/. Sub-front thickness + drawer front thickness minus 11.5 (7/16")

**NOTE:** For mounting hole position add 7 (9/32") to runner setback

---

Dimensions in millimeters (inch equivalents as noted)
### Attachment specifications

#### Rear attachment options for face frame applications

**Front view**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>295.3750.01</td>
<td>Rear mounting bracket, non-handed</td>
<td>295.3700.2x For 563H2290B10, non-handed</td>
</tr>
</tbody>
</table>

**Bottom view**

- **295.6410** Plug-in socket, non-handed
- **295.6400** Screw-on socket, non-handed

**NOTE:** Use at least three 606N or 606P installation screws for 295.3750.01 or 295.3700.2x

### Depth adjustment specifications

#### Side view

Mount each runner using at least two of the elongated holes. Install the drawer to check the position of the drawer front.

Remove the drawer, loosen screws and make adjustments if necessary, ±4.5 (3/16”). Tighten the screws, verify the drawer front position and finish mounting the runners using the screw locations indicated by the orange dots.

#### Bottom mounting specifications

**Top view**

### Millimeter to inch conversion chart

<table>
<thead>
<tr>
<th>Millimeter</th>
<th>Inch</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/32</td>
</tr>
<tr>
<td>1.5</td>
<td>1/16</td>
</tr>
<tr>
<td>2</td>
<td>3/32</td>
</tr>
<tr>
<td>3</td>
<td>1/8</td>
</tr>
<tr>
<td>4</td>
<td>5/32</td>
</tr>
<tr>
<td>5</td>
<td>1/4</td>
</tr>
<tr>
<td>5.5</td>
<td>9/32</td>
</tr>
<tr>
<td>6</td>
<td>3/16</td>
</tr>
<tr>
<td>7</td>
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<td>5/16</td>
</tr>
<tr>
<td>10</td>
<td>11/32</td>
</tr>
</tbody>
</table>