



Hinge technology for face frame cabinetry:  
**Optimat**

Technik für Möbel

  
**Hettich**

## Face-frame hinge

- ▶ Optimat Clip-On
- ▶ Hinge technology for face frame cabinetry

Meets and exceeds the requirements  
of ANSI/BHMA A156.9

Integrated Silent System

Front locating tabs



Convenient 6-way adjustment

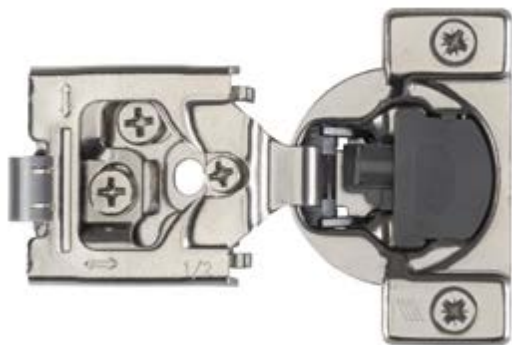
Wrap around mounting for easy assembly

The new Optimat Clip-On with silent system is a two piece compact hinge with integrated silent system that comes in 4 overlays and 6 adjustments.

The Optimat compact hinge allows for easier door installations and adjustments, resulting in reduced installation times and improved efficiency.

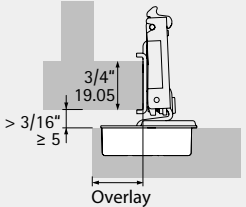
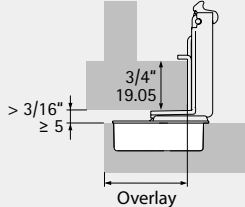
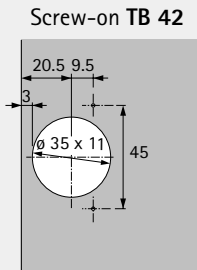
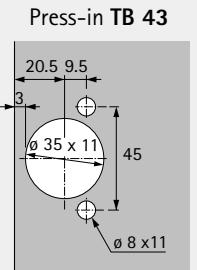
## Face-frame hinge with Silent System

- ▶ Optimat clip on
- ▶ Opening angle 105°



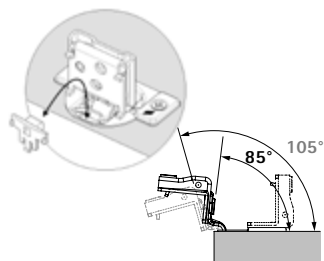
- ▶ 6-way-adjustable face-frame hinge
- ▶ Meets and exceeds the requirements of ANSI / BHMA A156.9 standard
- ▶ Integrated Silent System
- ▶ For door thickness up to 3/4" (19 mm)
- ▶ Cup diameter 1 3/8" (35 mm)
- ▶ Cup depth (minimum drilling depth) 7/16" (11 mm)
- ▶ Cup distance 1/8" (3 mm)
- ▶ Dampening activation: 35 °
- ▶ Open Angle: 105 °
- ▶ Optional: 85 ° angle restrictor

### Optimat clip-on with integrated Silent System

|  |                      |  |  |  |  |         |
|-----------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
| Overlay                                                                           |                      | Overlay                                                                           |  |                                                                                   |                                                                                     | PU      |
| 1/2"<br>(12.7 mm)                                                                 |                      |                                                                                   |  | 9 294 765 *                                                                       | 9 285 007                                                                           | 200 ea. |
| 3/4"<br>(19.05 mm)                                                                |                      |                                                                                   |  | 9 294 764 *                                                                       | 9 285 006                                                                           | 200 ea. |
|                                                                                   | 1 1/4"<br>(32 mm)    |                                                                                   |  | 9 294 767 *                                                                       | 9 285 008                                                                           | 200 ea. |
|                                                                                   | 1 5/16"<br>(33.3 mm) |                                                                                   |  |                                                                                   | 9 309 493                                                                           | 200 ea. |

\* non stocking item

### Angle reduction clip

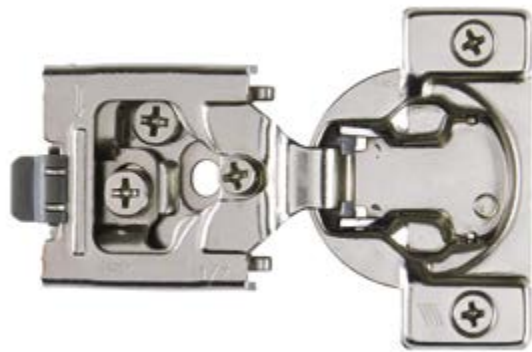


- ▶ Reduces opening angle to 85°
- ▶ Plastic, grey

| Type                 | Order no. | PU      |
|----------------------|-----------|---------|
| Angle reduction clip | 9 299 081 | 100 ea. |

## Face-frame hinge

- ▶ Optimat clip on
- ▶ Opening angle 105°



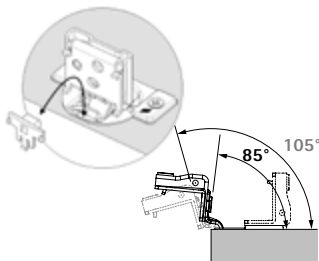
- ▶ 6-way-adjustable face-frame hinge
- ▶ Meets and exceeds the requirements of ANSI / BHMA A156.9 standard
- ▶ For door thickness up to 3/4" (19 mm)
- ▶ Cup diameter 1 3/8" (35 mm)
- ▶ Cup depth (minimum drilling depth) 7/16" (11 mm)
- ▶ Cup distance 1/8" (3 mm)
- ▶ Open Angle: 105°
- ▶ Optional: 85° angle restrictor

### Optimat clip-on

|                    |                      |                       |         |
|--------------------|----------------------|-----------------------|---------|
|                    |                      | <p>Press-in TB 43</p> | PU      |
| 1/2"<br>(12.7 mm)  |                      | <b>9 295 583 *</b>    | 200 ea. |
| 3/4"<br>(19.05 mm) |                      | <b>9 295 582</b>      | 200 ea. |
|                    | 1 1/4"<br>(32 mm)    | <b>9 295 584 *</b>    | 200 ea. |
|                    | 1 5/16"<br>(33.3 mm) | <b>9 309 492</b>      | 200 ea. |

\* non stocking item

### Angle reduction clip



- ▶ Reduces opening angle to 85°
- ▶ Plastic, grey

| Type                 | Order no.        | PU      |
|----------------------|------------------|---------|
| Angle reduction clip | <b>9 299 081</b> | 100 ea. |

# Face-frame hinge with Silent System

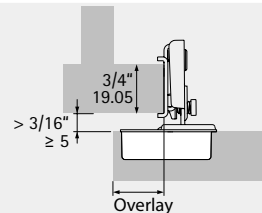
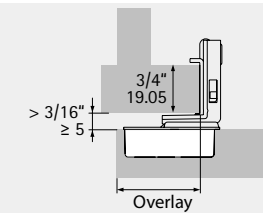
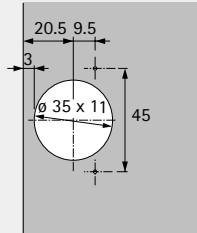
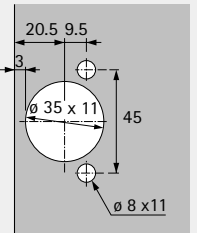


- Optimat 3D
- Opening angle 105°



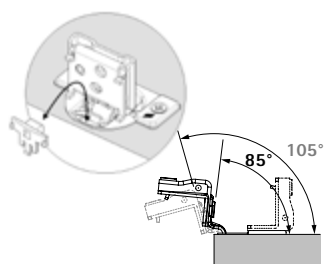
- 6-way-adjustable face-frame hinge
- Meets and exceeds the requirements of ANSI / BHMA A156.9 standard
- Integrated Silent System
- For door thickness up to 3/4" (19 mm)
- Cup diameter 1 3/8" (35 mm)
- Cup depth (minimum drilling depth) 7/16" (11 mm)
- Cup distance 1/8" (3 mm)
- Open Angle: 105°
- Optional: 85° angle restrictor

## Optimat 3D with silent system

|  |                      | Screw-on TB 42                                                                    | Press-in TB 43                                                                      | PU      |
|-----------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------|
|  |                      |  |  |         |
| Overlay                                                                           | Overlay              |                                                                                   |                                                                                     |         |
| 1/2"<br>(12.7 mm)                                                                 |                      | 9 294 761 *                                                                       | 9 285 000                                                                           | 200 ea. |
| 3/4"<br>(19.05 mm)                                                                |                      | 9 294 760 *                                                                       | 9 284 998                                                                           | 200 ea. |
|                                                                                   | 1"<br>(25.4 mm)      | 9 294 766 *                                                                       | 9 285 010                                                                           | 200 ea. |
|                                                                                   | 1 1/4"<br>(32 mm)    | 9 294 763 *                                                                       | 9 285 004                                                                           | 200 ea. |
|                                                                                   | 1 5/16"<br>(33.3 mm) | 9 294 762 *                                                                       | 9 285 002                                                                           | 200 ea. |
|                                                                                   | 1 1/2"<br>(38.1 mm)  |                                                                                   | 9 338 772 *                                                                         | 200 ea. |

\* non stocking item

## Angle reduction clip



- Reduces opening angle to 85°
- Plastic, grey

| Type                 | Order no. | PU      |
|----------------------|-----------|---------|
| Angle reduction clip | 9 299 081 | 100 ea. |

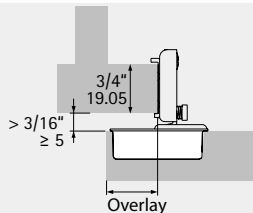
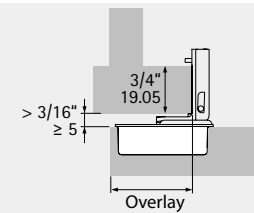
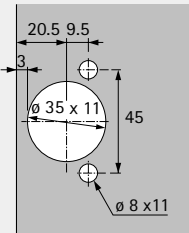
## Face-frame hinge

- Optimat 3D
- Opening angle 105°



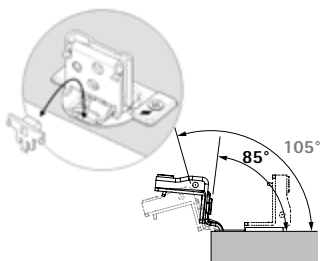
- 6-way-adjustable face-frame hinge
- Meets and exceeds the requirements of ANSI/BHMA A156.9 standard
- For door thickness up to 3/4" (19 mm)
- Cup diameter 1 3/8" (35 mm)
- Cup depth (minimum drilling depth) 7/16" (11 mm)
- Cup distance 1/8" (3 mm)
- Open Angle: 105°
- Optional: 85° angle restrictor

### Optimat 3D

|  |                      |  |  |         |
|-----------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|---------|
| Overlay                                                                           | Overlay              |                                                                                   |                                                                                    | PU      |
| 1/2"<br>(12.7 mm)                                                                 |                      |                                                                                   | <b>9 295 568</b>                                                                   | 200 ea. |
| 3/4"<br>(19.05 mm)                                                                |                      |                                                                                   | <b>9 295 567</b>                                                                   | 200 ea. |
|                                                                                   | 1"<br>(25.4 mm)      |                                                                                   | <b>9 295 585 *</b>                                                                 | 200 ea. |
|                                                                                   | 1 1/4"<br>(32 mm)    |                                                                                   | <b>9 295 570 *</b>                                                                 | 200 ea. |
|                                                                                   | 1 5/16"<br>(33.3 mm) |                                                                                   | <b>9 295 569 *</b>                                                                 | 200 ea. |
|                                                                                   | 1 1/2"<br>(38.1 mm)  |                                                                                   | <b>9 338 773 *</b>                                                                 | 200 ea. |

\* non stocking item

### Angle reduction clip



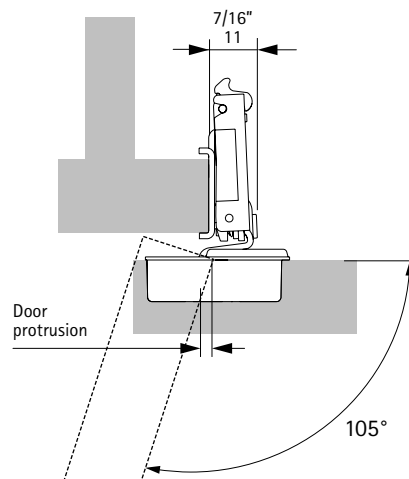
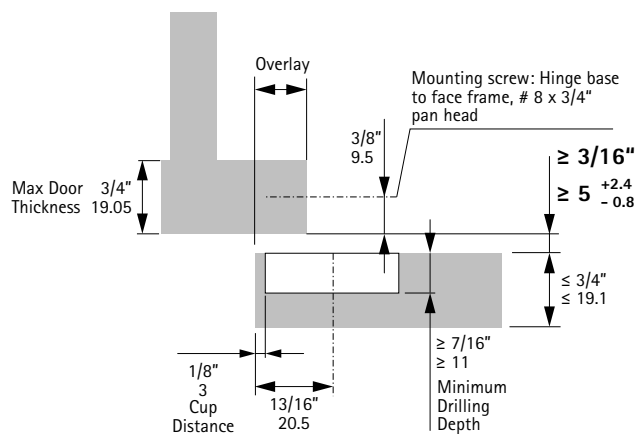
- Reduces opening angle to 85°
- Plastic, grey

| Type                 | Order no.        | PU      |
|----------------------|------------------|---------|
| Angle reduction clip | <b>9 299 081</b> | 100 ea. |

# Face-frame hinge

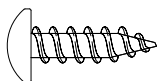
- Optimat
- Additional information

## Dimension - door closed side mount



## Deep thread wood screws for frame attachments

- Replacement screw for attaching hinge
- #8 x  $\frac{3}{4}"$ , Phillips flat head - Type 17, self cutting point



## Deep thread wood screws for door attachments

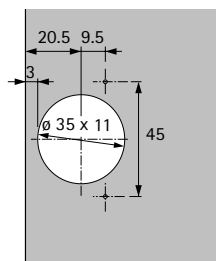
- Installation screw for attaching hinge
- #6 x  $\frac{5}{8}"$ , #2 Phillips
- #6 x  $\frac{5}{8}"$ , #2 POZI



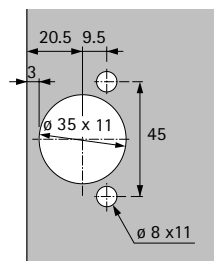
## Boring pattern TB screw on 42

## Boring pattern TB press-in 43

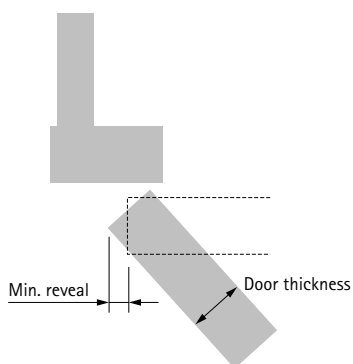
Screw-on TB 42



Press-in TB 43



## Minimum reveal



Minimum Reveal

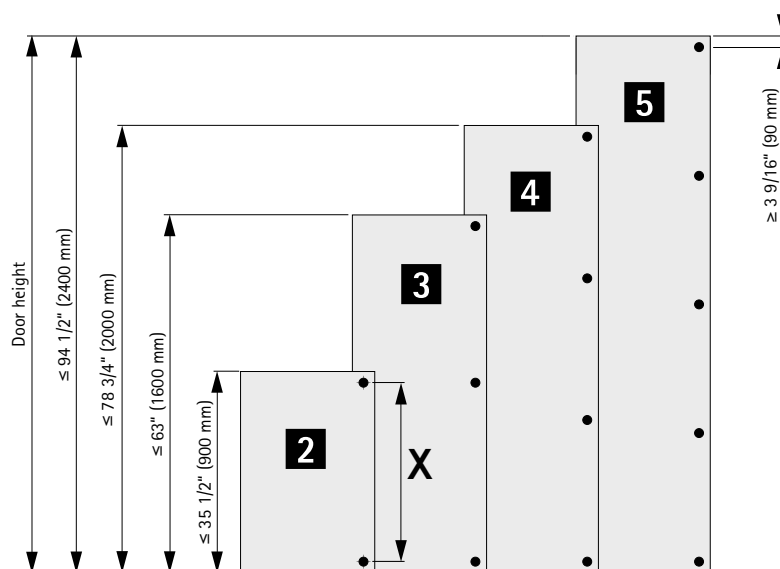
| Door Thickness | 5/8" (16 mm)   | 11/16" (17.5 mm) | 3/4" (19 mm)  |
|----------------|----------------|------------------|---------------|
| Minimum Reveal | 5/32" (4.2 mm) | 7/32" (5.4 mm)   | 1/4" (6.7 mm) |

Based on door with square edge.

## Hinges per door

The number of hinges specified in the diagram must be understood as a guide only. Next to the door dimensions the number of hinges is influenced by the weight. In case of doubt, a trial for adjusting the number of hinges is recommended.

For reasons of stability, distances (X) between the hinges must always be greater than the width of the door.



Guide values for 3/4" doors with width up to 23 5/8" (600 mm).

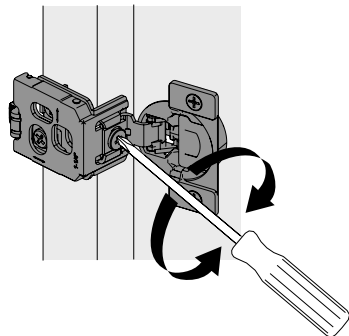
# Face-frame hinge

- ▶ Optimat
- ▶ Technical information

## Adjustment

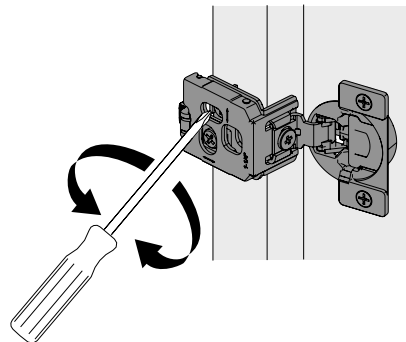
### Side adjustment:

(overlay < 1")  $\pm 1.3$  mm cam  
(overlay  $\geq 1$ ")  $\pm 1.5$  mm cam



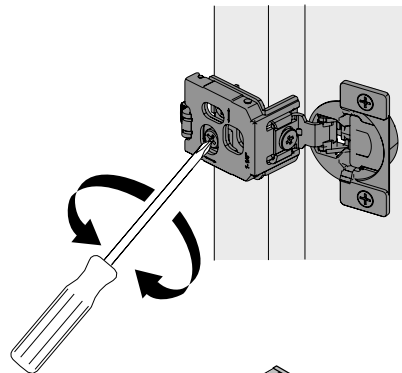
### Height adjustment:

$\pm 1.8$  mm cam



### Depth adjustment:

+ 2.6 mm cam



# Machine and machine accessories

- ▶ Blue Max Mini
- ▶ Additional information

## Blue Max Mini Type 3

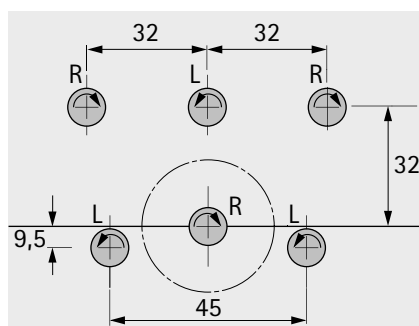


### Basic configuration

- ▶ 6-spindle boring head
- ▶ Pneumatic stroke movement
- ▶ Hold down clamp
- ▶ Machine base, work top
- ▶ Fence
- ▶ 2 pendulum stops
- ▶ Fixed stops
- ▶ 220 V / 60 Hz / 1-phase or 3-phase
- ▶ Motor power rating 1.6 kW (2.15 HP) or 1.3 kW (1.75 HP)
- ▶ Other voltages and configurations available on request

### Suitable for installing

- ▶ Hinges
- ▶ Connecting fittings
- ▶ Knock-in mounting plates
- ▶ MultiTech front connector



| Article                              | Order no.        | PU    |
|--------------------------------------|------------------|-------|
| Blue Max mini Type 3, 1-phase, 45 mm | <b>9 238 632</b> | 1 ea. |
| Blue Max mini Type 3, 3-phase, 45 mm | <b>9 238 634</b> | 1 ea. |

When ordering a machine just for VB connecting fittings, please specify this on your order and we will provide the change at no extra charge.

## Accessories for Blue Max Mini Type 3

| Description                                                              | Order no.        | PU    |
|--------------------------------------------------------------------------|------------------|-------|
| Fence extension with scale, 1500 mm long, for right-hand / left-hand use | <b>0 061 266</b> | 1 ea. |
| Pendulum stop for fence, right-hand / left-hand                          | <b>0 082 280</b> | 1 ea. |
| Universal die for Sensys / Interimat hinges                              | <b>9 180 604</b> | 1 ea. |
| Universal die for Sensys / Interimat/Optimat hinges                      | <b>9 338 774</b> | 1 ea. |
| Red drill chuck cap                                                      | <b>0 076 497</b> | 1 ea. |

## Drill bits

| Description   |             | Order no.        |                  | PU    |
|---------------|-------------|------------------|------------------|-------|
| Diameter (mm) | Length (mm) | right-hand       | left-hand        |       |
| 40            | 57          | <b>0 069 250</b> |                  | 1 ea. |
| 35            | 57          | <b>0 053 955</b> |                  | 1 ea. |
| 20            | 57          |                  | <b>0 053 955</b> | 1 ea. |
| 15            | 57          | <b>0 053 943</b> | <b>0 061 651</b> | 1 ea. |
| 10            | 57          | <b>0 053 952</b> | <b>0 053 951</b> | 1 ea. |
| 8             | 57          | <b>0 053 817</b> | <b>0 053 818</b> | 1 ea. |
| 5             | 57          | <b>0 053 950</b> | <b>0 053 949</b> | 1 ea. |

[www.hettich.com](http://www.hettich.com)

Order no.: 9 291 620  
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Technik für Möbel

