

## Concealed hinges

Premium hinge systems for cabinet doors

## Quick reference

Simple planning and ordering
Blum offers many on-line tools to help you with your kitchen planning and ordering. Planning tools allow the selection of components based on your cabinet construction and size. Additional components can be selected as needed. Once complete, they provide an easy-to-follow order form.

Hinge planning tools
Blum has downloadable Excel ${ }^{\oplus}$ spreadsheets that help determine the hinge that is right for your application.

Planning tools are easily accessible on our website at blum.com/planning


For more information on Concealed hinges please refer to our website at www.blum.com/us/en/01/\#2

Or simply scan the quick reference code below
Hinge cup centerpoint


| C cup centerpoint |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 20.5 | 21.5 | 22.5 | 23.5 | 24.5 | 25.5 |
| $13 / 16^{\prime \prime}$ | $27 / 32$ " | $7 / 8^{\prime \prime}$ | $15 / 16^{\prime \prime}$ | $31 / 32$ " | 1 " |
| 3 | 4 | 5 | 6 | 7 | 8 |
| B $~$ Boring distance |  |  |  |  |  |

## Hinges per door


This chart can serve as a guide for determining the number of hinges per door. Note that door weight can also determine the number of hinges required.

Hinge abbreviation key

$=$ Boring distance
= Plate height
= Door overlay
= Door protrusion
= Reveal
= Side arm protrusion
= Door thickness
= Side panel width
= Fixed distance

| Conversion chart |  |  |
| :---: | :---: | :---: |
| mm | inch |  |
| 1 | 1/32 | . 031 |
| 1.5 | 1/16 | . 063 |
| 2 | 3/32 | . 094 |
| 3 | 1/8 | . 125 |
| 4 | 5/32 | . 156 |
| 5 | 3/16 | . 188 |
| 5.5 | 7/32 | . 219 |
| 6 | 1/4 | . 25 |
| 7 | 9/32 | . 281 |
| 8 | 5/16 | . 313 |
| 9 | 11/32 | . 344 |
| 9.5 | $3 / 8$ | . 375 |
| 10 | 13/32 | . 406 |
| 11 | 7/16 | . 438 |
| 12 | 15/32 | . 469 |
| 13 | 1/2 | . 5 |
| 13.5 | 17/32 | . 531 |
| 14 | 9/16 | . 563 |
| 15 | 19/32 | . 594 |
| 16 | 5/8 | . 625 |
| 17 | 21/32 | . 656 |
| 17.5 | 11/16 | . 688 |
| 18 | 23/32 | . 719 |
| 19 | $3 / 4$ | . 75 |
| 20 | 25/32 | . 781 |
| 20.5 | 13/16 | . 813 |
| 21 | 27/32 | . 844 |
| 22 | 7/8 | . 875 |
| 23 | 29/32 | . 906 |
| 24 | 15/16 | . 938 |
| 24.5 | 31/32 | . 969 |
| 25.4 | 1 | 1 |

## Fixed distance (FD)

The distance that the cup overlays the cabinet side panel when a hinge is attached to a 0 mm mounting plate.
This is used to calculate hinge overlay with the formula $\mathbf{X}+\mathbf{B}$ minus $\mathrm{H}=\mathbf{O L}$ (Fixed distance + boring distance minus plate height $=$ overlay)

## Elegant design, superior function

Silent and effortless, that's how cabinet doors close with Blum hinges regardless of the weight or closing speed.

CLIP top BLUMOTION hinges have the soft close mechanism integrated in the hinge cup, and continues to provide the quality of motion you have come to expect from Blum.

Contents

Concealed hinges
5 Product overview
$7 \quad$ CLIP testing standards

8 General specifications - CLIP

12 Hinge program overview

13 CLIP top BLUMOTION

20 CLIP top

41 CLIP

43 Angled hinges

55 CLIP accessories

57 CLIP mounting plates

63 BLUMOTION for doors

71 TIP-ON for doors

77 COMPACT testing standards
78 General specifications - COMPACT
80 COMPACT BLUMOTION

85 COMPACT

92 COMPACT accessories

93 Machines

97 Assembly aids

101 Part number index

## Hinges

## form



## Product Overview

## CLIP top BLUMOTION

BLUMOTION is integrated in the hinge cup so additional assembly processes are no longer necessary after adjustment is complete.

## CLIP top

Like other CLIP hinges, CLIP top enables easy three-dimensional adjustment with Blum's spiral tech depth adjustment.

## CLIP

The tried and tested CLIP mechanism offers simple, tool-free hinge assembly. The industry standard for tool-free attachment since 1985.

## Angled hinges

Angled hinges provide a tremendous array of possibilities for the professional cabinet designer. Specifically designed for panel constructed (frameless) cabinets, the system accommodates cabinet front angles from $-45^{\circ}$ to $+45^{\circ}$, in $5^{\circ}$ increments.

## CLIP accessories

Blum offers a wide range of accessories from spacers to restriction clips that support a variety of applications. A selection of customizable cover caps enables the customer to enhance and personalize each hinge.

## CLIP mounting plates

CLIP top BLUMOTION works with all current CLIP mounting plates so you can start using this new hinge right away with little change to production.

## Hinges

## BLUMOTION for doors

BLUMOTION add-on upgrade option available for CLIP top, CLIP and COMPACT hinges. Easy to install and offers the same quality of motion as BLUMOTION hinges.


## TIP-ON for doors

Designed for panel or face frame (blocked out) cabinet applications. Works with CLIP top BLUMOTION, CLIP top and CLIP free swing and self close hinges. Ideal for handleless cabinets, doors can be opened easily with TIP-ON - a light touch is all that's needed.

## COMPACT BLUMOTION

COMPACT BLUMOTION hinges have the soft closing mechanism integrated directly in the hinge cup. They are available for most overlay face frame applications or door styles and are interchangeable with current COMPACT hinges so no need to change existing setups or workflows.

## COMPACT accessories

Blum's COMPACT hinges program has proven itself as the high quality solution for face frame cabinets for over 30 years and continue to provide the quality of motion you have come to expect from Blum hardware.

## Assembly aids

Blum assembly aids support the assembly of all Blum products. They have proven to be the very best aids when it comes to day-to-day assembly. Their combination of high precision and practical benefits is valued both in workshops and directly on-site with the customer.


## Machines and accessories

The wide range of drilling and insertion machines on offer from Blum ensures just the right solution no matter what the assembly requirement. Quick setup and easy operation ensure efficient assembly and a highquality end result.

## CLIP Testing Standards

## ablum

## Conditions for Tests

Blum, Inc. does a great deal of testing to ensure that the quality of our hardware is consistent with the usual high standards that our customers have come to expect from Blum. For this reason we have rigorous testing procedures which are carried out from the development stage through production. Blum's internal testing standards are based on practical applications of our products and are more stringent than what is required by ANSI/BHMA.

NOTE: All Blum hinges meet or exceed ANSI/BHMA A156.9-2001 grade 2 requirements. All concealed hinges are designed for indoor use.

| Cycle test |  |
| :--- | :--- | :--- |
| Specifications | Door size $-23-5 / 8 "$ height, $23-5 / 8^{\prime \prime}$ width, $3 / 4$ " thickness |
|  | $=$ Door weight -14.3 lb for cycle tests |
|  | $=$ Door weight -18.5 lb for load and over push tests |
|  | $=$ Boring distance -5 mm |

## Cycle test



## With load

- 11 lb extra weight is applied for 100,000 opening and closing cycles


Positive test result


## Without load

- CLIP hinges - Increasing forces up to 11 lb applied for a total of five times for a total of five seconds each



## Hinges

## Blum three-point contact

CLIP top BLUMOTION, CLIP top and CLIP hinges have three-point contact between the hinge and mounting plate to keep them firmly connected under heavy usage.


## Side adjustment

Blum's side adjustment is a flush screw head that allows $\mathbf{4 m m}$ of adjustment. It also has an integral stop that prevents removal.


## Spiral tech depth adjustment

With Blum's spiral tech depth adjustment just one and three quarter revolutions of the screw creates 5 mm of adjustment without loosening and retightening a fixing screw.


## Wide variety of mounting plates

Blum has mounting plates for every application from wing plates with pre-attached screws or dowels and cam height adjustable face frame adapters, to sleek in-line mounting plates.


## 46trm

## Hinge-to-Door Attachment



## EXPANDO

Pre-attached expanding $\varnothing \mathbf{8} \mathrm{mm}$ dowels


## Press-in

Pre-attached $\varnothing 8$ dowels installed with Blum knock-in tool or MINIPRESS with an insertion ram


## INSERTA

Tool-free attachment with INSERTA expanding $\varnothing 8 \mathrm{~mm}$ dowels


## Mounting Plate-to-Cabinet



## Adjustments

## Side adjustment

Rotate front screw to increase or decrease door overlay ( $\pm \mathbf{2} \mathrm{mm}$ )


## Height adjustment

Rotate cam screw on mounting plate to adjust door position ( $\pm \mathbf{2} \mathbf{~ m m}$ )


NOTE: On non-cam mounting plates, loosen screws, adjust door and retighten screws

## Three-Dimensional Adjustment



## Hinges

## BLUMOTION Deactivation

## Deactivation switch on hinge cup

For small or light doors, the BLUMOTION can be deactivated on one of the hinges


Door must be closed once for the deactivation to be complete. To reactivate, move switch back to original position.


## i

Temperature information

CLIP top BLUMOTION is designed to be used at temperatures between $65^{\circ}$ and $85^{\circ} \mathrm{F}$. Lower or higher temperatures will not cause damage to the hinge, however they will affect the closing speed. Once the temperature returns to the suggested range the hinge will return to its optimal closing action.

## Using the Brochure

Blum's Concealed hinges brochure makes it easy to use our Euro hinges. Each page shows information for both face frame and panel applications. The top row shows the hinge in a face frame cabinet and the center row shows it in a panel cabinet. The bottom holds the overlay/reveal tables and hinge part numbers.

## Minimum reveal

To determine the minimum reveal, use the table in the upper right hand corner of each page.

## Face frame construction

To use Euro hinges in a face frame cabinet, use the top row.

## Panel construction

To use Euro hinges in a panel cabinet, use the center row.

## Overlay and reveal tables

To determine the overlay and reveals, use the tables at the bottom of each column.

## Select hinge

Select the appropriate hinge from the bottom of each column. Screw-on, press-in, EXPANDO and INSERTA are available for most hinges.


Step-by-step - the following example is based on a panel cabinet with an overlay

Step 1 - Determine cabinet construction


Step 3 - Find boring distance and mounting plate height
Based on your overlay use the table to determine the mounting plate height and boring distance needed.


| H |  | Overlay |  |  | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| (0)-14 15 16 (17) |  |  |  |  | 10 | 21 |
| 3 | 11 | 12 | 13 | 14 | 13 | 24 |
| 4.5 | 9.5 | 10.5 | 11.5 | 12.5 | 14.5 | 25 |
| 6 | 8 | 9 | 10 | 11 | 16 | 27 |
| 9 | 5 | 6 | 7 | ¢ | 19 | 30 |
|  | 3 | 4 | 5 |  |  |  |

NOTE: 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

## Step 2 - Determine the overlay or reveal



## Step 4 - Check minimum reveal table



| CLIP top BLUMOTION | Page |
| :--- | :---: |
| $110^{\circ}$ | 13 |
| $110^{\circ}+$ | 14 |
| $95^{\circ}$ thick door | 15 |
| $110^{\circ}$ diagonal $45^{\circ}$ | 16 |
| $95^{\circ}$ inset blind corner | 17 |
| $95^{\circ}$ overlay blind corner | 18 |
| $95^{\circ}$ narrow aluminum | 19 |


| Angled | Page |
| :--- | :---: |
| CLIP top BLUMOTION and CLIP top | 43 |


| CLIP accessories | Page |
| :--- | :---: |
| Cover caps | 55 |
| Angle restriction clips | 56 |
| Mounting plates | 57 |
| BLUMOTION for doors | 63 |
| TIP-ON for doors | 71 |


| COMMPACT BLUIMOTION | Page |
| :--- | :---: |
| 38N for partial overlay | 80 |
| 39C for full overlay | 81 |
| 38C for full overlay | 82 |
| 38B for face mount | 83 |
| Accessories | 84 |


| COIMPACT | Page |
| :--- | :---: |
| 38N for partial overlay | 86 |
| 39C for full overlay | 87 |
| 38C for full overlay | 88 |
| 33 for partial and full overlays | 89 |
| BLUMOTION for COMPACT | 91 |
| Accessories | 92 |


| Machines and assembly aids | Page |
| :--- | :---: |
| Machines | 93 |
| Machine accessories | 94 |
| Assembly aids | 97 |


| CLIP | Page |
| :---: | :---: |
| $107^{\circ}$ | 41 |
| $100^{\circ}$ | 42 |


| Part number index | Page |
| :--- | :---: |
| Part numbers | 101 |

Hinges folum


CLIP top BLUMOTION $110^{\circ}$


Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 26 (1")
- Overload safety feature
- $86^{\circ}$ angle restriction clip available (70T3553)
- Compatible with existing CLIP mounting plates and hinge arm cover caps

| Minimum reveal table |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.5 | 1.0 | 1.8 | 2.7 | 4.3 |
| 4 | 0.5 | 1.0 | 1.7 | 2.5 | 3.8 |
| 5 | 0.5 | 0.9 | 1.7 | 2.4 | 3.4 |
| 6 | 0.5 | 0.9 | 1.6 | 2.3 | 3.2 |
| 7 | 0.5 | 0.9 | 1.6 | 2.2 | 3.0 |
| B $=$ <br> boring <br> distance | 16 | 19 | 22 | 24 | 26 |
| T $=$ door thickness |  |  |  |  |  |

Thickness greater than 26 trial recommended


| H | Reveal |  |  |  |  | W | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 7 | 5 | 3 | 1 | - | 16 | 21.5 | 31 |
|  | 10 | 8 | 6 | 4 | 2 | 19 |  |  |
|  | 13 | 11 | 9 | 7 | 5 | 22 |  |  |
|  | 3 | 4 | 5 | 6 | 7 |  |  |  |
|  |  | bo | g | tan |  |  |  |  |


| Half-cranked | Self close |
| :--- | ---: |
| Screw-on | 71 B 3650 |
| Press-in |  |
| INSERTA | 71 B 3680 |



NOTE: Application requires a half-cranked hinge and mounting plate 175 H 5030.21


| H | Reveal |  |  |  |  | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 4 | 3 | 2 | 1 | - | 30 | 39.5 |
| 9 | 4.5 | 3.5 | 2.5 | 1.5 | 0.5 | 30.5 | 40 |
|  | 3 | - 4 | 5 | 6 | 7 | $\begin{array}{r} \text { Fixed } \\ 0 \\ 9= \end{array}$ | $\begin{aligned} & \text { istance: } \\ & -7 \\ & 1.5 \end{aligned}$ |
| Abbreviations |  |  |  |  |  |  |  |
| H | $=$ Plate height |  |  |  |  |  |  |
| P | = Door protrusion |  |  |  |  |  |  |
| S | = Side arm protrusion |  |  |  |  |  |  |
| W | = Side panel width |  |  |  |  |  |  |


| Full-cranked | Self close |
| :--- | ---: |
| Screw-on | $71 B 3750$ |
| Press-in | 7133780 |
| INSERTA | 7133790 |



## CLIP top BLUMOTION $110^{\circ}+$



| H | Overlay |  |  |  |  |  | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 16 | 17 | 17.5 | 18 | 19 | 20 | 10 | 20 |
| 3 | 13 | 14 | 14.5 | 15 | 16 | 17 | 13 | 23 |
| 4.5 | 11.5 | 12.5 | 13 | 13.5 | 14.5 | 15.5 | 14.5 | 24.5 |
| 6 | 10 | 11 | 11.5 | 12 | 13 | 14 | 16 | 26 |
| 9 | 7 | 8 | 8.5 | 9 | 10 | 11 | 19 | 29 |
|  | 3 | 4 | 4.5 | 5 | 6 | 7 |  |  |
|  |  | $B=$ | ring | dis | ance |  |  |  |

NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | 73 B 3550 |
| Press-in |  |
| INSERTA | 73 B 3580 |
| EXPANDO | 73 B 3590 |

## Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 26 (1")
- Overload safety feature
- For door overlays up to 22 mm
- $86^{\circ}$ angle restriction clip available (70T3553)
- Compatible with existing CLIP mounting plates and hinge arm cover caps


## Partial/twin overlay



| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | 73 B3550 |
| Press-in |  |
| INSERTA | 73 B 3580 |
| EXPANDO | 73 B 3590 |

## Hinges

| Minimum reveal table |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.5 | 1.0 | 1.8 | 2.7 | 4.3 |
| 4 | 0.5 | 1.0 | 1.7 | 2.5 | 3.8 |
| 4.5 | 0.5 | 1.0 | 1.7 | 2.5 | 3.6 |
| 5 | 0.5 | 0.9 | 1.7 | 2.4 | 3.4 |
| 6 | 0.5 | 0.9 | 1.6 | 2.3 | 3.2 |
| 7 | 0.5 | 0.9 | 1.6 | 2.2 | 3.0 |
| $\mathrm{B}=$ <br> boring <br> distance | 16 | 19 | 22 | 24 | 26 |

Thickness greater than 26 trial recommended


The most common overlays for frame and panel cabinets can be achieved by using the same machine setting for hinge cup boring.

Bore all doors at 4.5 mm to achieve:

- 13 ( $1 / 2^{\text {" }}$ ) overlay on frame cabinets
- 17.5 (11/16") overlay on panel cabinets


## Advantages:

- One machine setting for boring all doors
- Same hinge used for both applications

| Abbreviations |  |
| ---: | :--- |
| H | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |
| W | $=$ Side panel width |

Hinges 46tum


Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 30 (1-3/16")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

| Minimum reveal table |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.4 | 0.8 | 1.0 | 1.5 | 1.9 | 2.8 | 3.6 |
| 4 | 0.4 | 0.7 | 1.0 | 1.4 | 1.8 | 2.5 | 3.1 |
| 5 | 0.4 | 0.7 | 1.0 | 1.4 | 1.8 | 2.3 | 2.7 |
| 6 | 0.4 | 0.7 | 1.0 | 1.4 | 1.8 | 2.2 | 2.5 |
| 7 | 0.4 | 0.7 | 0.9 | 1.4 | 1.7 | 2.1 | 2. |
|  | 19 | 22 | 24 | 26 | 28 | 29 | 30 |
| distance | T = door thickness |  |  |  |  |  |  |

Thickness greater than $\mathbf{3 0}$ trial recommended


Panel


| H | Reveal |  |  |  |  | W | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 7 | 5 | 3 | 1 | - | 16 | 24 | 31 |
|  | 10 | 8 | 6 | 4 | 2 | 19 |  |  |
|  | 13 | 11 | 9 | 7 | 5 | 22 |  |  |
|  | 3 | 4 | 5 | 6 | 7 |  |  |  |
|  |  | = bo | ng | tan |  |  |  |  |


| Half-cranked | Self close |
| :--- | ---: |
| Screw-on | $71 \mathrm{B9650}$ |
| Press-in | 71 B 9680 |
| INSERTA | $71 \mathrm{B9690}$ |



NOTE: Application requires a half-cranked hinge and mounting plate 175 H 5030.21


| H | Reveal |  |  |  |  | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 4 | 3 | 2 | 1 | - | 32.5 | 40 |
| 9 | 4.5 | 3.5 | 2.5 | 1.5 | 0.5 | 33 | 40.5 |
|  | 3 | 4 | 5 |  | 7 | $\begin{gathered} \text { Fixed distance: } \\ 0=-7 \\ 9=1.5 \end{gathered}$ |  |
|  | $\mathrm{B}=$ boring distance |  |  |  |  |  |  |


| Abbreviations |  |
| ---: | :--- |
| H | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |
| W | $=$ Side panel width |


| Full-cranked | Self close |
| :--- | ---: |
| Screw-on | $71 \mathrm{B9750}$ |
| Press-in | $71 \mathrm{B9780}$ |
| INSERTA | $71 \mathrm{B9790}$ |



## CLIP top BLUMOTION $110^{\circ}$ <br> Diagonal $45^{\circ}$

## Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 19 (3/4")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps


## Hinges

form


Thickness greater than 19 trial recommended

## Calculating door width

Step 1. Using the boring distance (B) determined in the reveal table, cross-reference to find the side gap distance $(\mathrm{Y})$ in the table below.

Step 2. Using the following formula to find the door width. Door width = interior width minus ( $\mathrm{Y} \times 2$ ).

Example: interior width $=\mathbf{4 0 0} \mathrm{mm}$, side gap $(Y)=4.5 \mathrm{~mm}$.
$391=400$ minus $(4.5 \times 2)$


| H | Reveal |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 6 | 5 | 4 | 3 |
|  | 3 | 4 | 5 | 6 |
|  | $\mathrm{~B}=$ boring distance |  |  |  |

NOTE: Reveal based on 19 (3/4") side panel

| Diagonal $45^{\circ}$ hinge | Self close |
| :--- | ---: |
| INSERTA | $79 B 3598$ |



| $\mathrm{Y}=$ side gap |  |  |  |
| :---: | :---: | :---: | :---: |
| 5.5 | 4.5 | 3.5 | 2.5 |
| 3 | 4 | 5 | 6 |
| $\mathrm{~B}=$ boring distance |  |  |  |

NOTE: Calculations based on 19 (3/4") door thickness
Abbreviations

| H | $=$ Plate height |
| :--- | :--- |
| Y | $=$ Side gap |

Overlay application


## Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 24 (15/16")
- Overload safety feature
- Boring distance range $\mathbf{3 m m}$ to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps

| Minimum reveal table |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 4 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 5 | 0.1 | 0.4 | 0.4 | 0.5 | 0.9 | 1.3 |
| 6 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.2 |
| 7 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.2 |
| $\mathrm{B}=$ <br> boring <br> distance | 16 | 18 | 19 | 20 | 22 | 24 |
| $\mathrm{~T}=$ door thickness |  |  |  |  |  |  |

Thickness greater than $\mathbf{2 4}$ trial recommended


## Abbreviations



| Inset blind corner | Self close |
| :--- | ---: |
| Screw-on | 7989550 |
| Press-in | $79 B 9580$ |
| INSERTA | $79 B 9590$ |


| H | Reveal |  |  |  |  | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{0}$ | $\mathbf{5}$ | $\mathbf{4}$ | $\mathbf{3}$ | $\mathbf{2}$ | $\mathbf{1}$ | $\mathbf{3 3 . 5}$ | $\mathbf{1 8}$ |
|  | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | $\mathbf{7}$ |  |  |
| $\mathrm{B}=$ boring distance |  |  |  |  |  |  |  |


| Inset blind corner | Self close |
| :--- | ---: |
| Screw-on | 79 B9550 |
| Press-in | 79 B9580 |
| INSERTA | 79 B9590 |



## Features



- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 24 (15/16")
- Overload safety feature
- Boring distance range $\mathbf{3 m m}$ to 7 mm
- Compatible with existing CLIP mounting plates and hinge arm cover caps


## Overlay application




NOTE: Door gap can be adjusted $\pm 2 \mathrm{~mm}$

| Setback | Overlay |  |  |  |  | P | D |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 27 | 2 | 3 | 4 | 5 | 6 | 7 | 32 |
| 32 | 7 | 8 | 9 | 10 | 11 | 12 | 27 |
| 37 | 12 | 13 | 14 | 15 | 16 | 17 | 22 |
|  | 3 | 4 | 5 | 6 | 7 | Fixed <br> distance <br> $=9$ |  |
|  |  |  |  |  |  |  | B $=$ boring distance |

NOTE: Door overlay varies depending on the setback position of the mounting plate. Use the table to select the desired overlay and cross-reference to the plate setback and boring distance.

| H | Gap |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 7 | 4 | 1 | 21 |
| 3 | 4 | 1 | - | 24 |
| 6 | 1 | - | - | 27 |
|  | 16 | 19 | 22 |  |
|  | FP $=$ front panel thickness |  |  |  |

NOTE: Door gap varies depending on the thickness of the stationary panel and the height of the mounting plate. Use the table to cross-reference the plate height based on the front panel thickness and door gap.

## Hinges

| Minimum reveal table |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 4 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 5 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 6 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.2 |
| 7 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.2 |
| B $=$ <br> boring <br> distance | 16 | 18 | 19 | 20 | 22 | 24 |

Thickness greater than 24 trial recommended

| Abbreviations |  |
| ---: | :--- |
| D | $=$ Depth |
| FP | $=$ Front panel thickness |
| H | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |


| Overlay blind corner | Self close |
| :--- | ---: |
| Press-in | 7989980 |

Hinges


## Overlay



Panel


| $H$ | Overlay | $P$ | $S$ |
| :---: | :---: | :---: | :---: |
| 0 | 16 | 13.5 | 22 |
| 3 | 13 | 16.5 | 25 |
| 4.5 | 11.5 | 18 | 26.5 |
| 6 | 10 | 19.5 | 28 |
| 9 | 7 | 22.5 | 31 |
|  | $B=$ fixed |  |  |

NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | $71 B 950 \mathrm{~A}$ |

CLIP top BLUMOTION $95^{\circ}$
Narrow Aluminum Door


## Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- For door thicknesses up to 22 (7/8")
- Overload safety feature
- Compatible with existing CLIP mounting plates and hinge arm cover caps

| Minimum reveal table |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 18 | 0.2 | 0.3 | 0.4 | 0.6 | 0.7 |
| 19 | 0.2 | 0.3 | 0.4 | 0.6 | 0.7 |
| 20 | 0.2 | 0.3 | 0.4 | 0.5 | 0.7 |
| 21 | 0.2 | 0.3 | 0.4 | 0.5 | 0.7 |
| 22 | 0.2 | 0.3 | 0.4 | 0.5 | 0.7 |
| Door <br> frame <br> width | 18 | 19 | 20 | 21 | 22 |
| T door thickness |  |  |  |  |  |

Thickness greater than 22 trial recommended


Panel


| $H$ | Overlay | P | S |
| :---: | :---: | :---: | :---: |
| 9 | 7 | 23 | 31 |
|  | $\mathrm{~B}=$ fixed |  |  |


| H | Reveal | W | P | S |
| :---: | :---: | :---: | :---: | :---: |
| 9 | 2 | 16 | 23 | 31 |
|  | 5 | 19 |  |  |
|  | $B=$ fixed |  |  |  |


| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | $71 B 950 A$ |

## Installation

Attach cup adapter to the hinge and insert into machined openings


Attach using aluminum screws provided with hinges (699.110)


## Aluminum door preparation



| Abbreviations |  |
| ---: | :--- |
| H | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |
| W | $=$ Side panel width |



## CLIP top $107^{\circ}$

## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 22 (7/8")
- $86^{\circ}$ angle restriction clip available (74.1103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available


## Hinges

| Minimum reveal table |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.6 | 1.0 | 1.3 | 1.7 | 2.5 |  |
| 4 | 0.6 | 1.0 | 1.3 | 1.6 | 2.4 |  |
| 5 | 0.6 | 1.0 | 1.2 | 1.5 | 2.2 |  |
| 6 | 0.6 | 1.0 | 1.2 | 1.4 | 2.0 |  |
| B $=$ | 16 | 18 | 19 | 20 | 22 |  |
| boring <br> distance | $\mathrm{T}=$ door thickness |  |  |  |  |  |

Thickness greater than $\mathbf{2 2}$ trial recommended



| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | $75 T 1550$ |
| Press-in | $75 T 1580$ |
| INSERTA | $75 T 1590 B$ |


| Abbreviations |  |
| :--- | :--- |
| H | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |
| W | $=$ Side panel width |

Abbreviations

Overlay


Panel


| H | Overlay |  |  |  |  | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| S |  |  |  |  |  |  |
| 0 | 14 | 15 | 16 | 17 | 10 | 21 |
| 3 | 11 | 12 | 13 | 14 | 13 | 24 |
| 4.5 | 9.5 | 10.5 | 11.5 | 12.5 | 14.5 | 25.5 |
| 6 | 8 | 9 | 10 | 11 | 16 | 27 |
| 9 | 5 | 6 | 7 | 8 | 19 | 30 |
|  | 3 | 4 | 5 | 6 | Fixed <br> distance <br> $=11$ |  |

NOTE: 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

Hinges
folum


## Overlay



Panel


| $H$ | Overlay |  |  |  |  | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 14 | 15 | 16 | 17 | 18 | 12 | 21.5 |
| 3 | 11 | 12 | 13 | 14 | 15 | 15 | 24.5 |
| 4.5 | 9.5 | 10.5 | 11.5 | 12.5 | 13.5 | 16.5 | 26 |
| 6 | 8 | 9 | 10 | 11 | 12 | 18 | 27.5 |
| 9 | 5 | 6 | 7 | 8 | 9 | 21 | 30.5 |
|  | 3 | 4 | 5 | 6 | 7 | Fixed <br> distance <br> $=11$ |  |
| $\mathrm{~B}=$ boring distance |  |  |  |  |  |  |  |

NOTE: 4.5 plate is only for use in frame cabinets, 9 plate is only for panel cabinets

| Straight-arm | Self close | Free swing |
| :--- | ---: | ---: |
| Screw-on | 71 T3550 | 70 T3550.TL |
| Press-in | 71 T3580 | 70 T3580.TL |
| INSERTA | 71 T3590 | 70 T3590.TL |
| EXPANDO | 71T358E |  |

## CLIP top $110^{\circ}$



Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- INSERTA lever expands in $\varnothing 8 \mathrm{~mm}$ holes
- For door thicknesses up to 26 (1")
- $86^{\circ}$ angle restriction clip available (70T3553)
- All metal hinge, nickel plated
- Add-on BLUMOTION soft close available

| Minimum reveal table |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.5 | 1.0 | 1.8 | 2.7 | 4.3 |  |  |
| 4 | 0.5 | 1.0 | 1.7 | 2.5 | 3.8 |  |  |
| 5 | 0.5 | 0.9 | 1.7 | 2.4 | 3.4 |  |  |
| 6 | 0.5 | 0.9 | 1.6 | 2.3 | 3.2 |  |  |
| 7 | 0.5 | 0.9 | 1.6 | 2.2 | 3.0 |  |  |
| B $=$ <br> boring <br> distance | 16 | T = door thickness |  |  |  |  |  |

Thickness greater than 26 trial recommended


Panel


|  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| H | Reveal |  |  |  |  | W | P | S |
|  | 7 | 5 | 3 | 1 | - | 16 | 21.5 | 31 |
| 0 | 10 | 8 | 6 | 4 | 2 | 19 |  |  |
|  | 13 | 11 | 9 | 7 | 5 | 22 |  |  |
|  | 3 | 4 | 5 | 6 | 7 |  |  |  |
|  | $B=$ boring distance |  |  |  |  |  |  |  |




NOTE: Application requires a half-cranked hinge and mounting plate 175 H 5030.21


| H | Reveal |  |  |  |  | P | S |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{0}$ | $\mathbf{4}$ | $\mathbf{3}$ | 2 | 1 | - | 30 | 39.5 |
| 9 | 4.5 | 3.5 | 2.5 | 1.5 | 0.5 | 30.5 | 40 |
|  | 3 | 4 | 5 | 6 | 7 | Fixed distance: |  |
|  | B $=$ boring distance | $0=-7$ <br> $9=1.5$ |  |  |  |  |  |
| Abbreviations |  |  |  |  |  |  |  |
| H | $=$ Plate height |  |  |  |  |  |  |
| P | $=$ Door protrusion |  |  |  |  |  |  |
| S | $=$ Side arm protrusion |  |  |  |  |  |  |
| W | $=$ Side panel width |  |  |  |  |  |  |


| Full-cranked | Self close | Free swing |
| :--- | ---: | ---: |
| Screw-on | 71 T13750 | 70T3750.TL |
| Press-in | 7173780 |  |
| INSERTA | $71 T 3790$ |  |




Overlay


Panel


## Hinges



## Features

- For larger overlays ( $\mathbf{2 2}$ mm maximum)
- Three-dimensional adjustment
- Available with INSERTA attachment
- INSERTA lever expands in $\varnothing 8 \mathrm{~mm}$ holes
- For door thicknesses up to 26 (1")
- $86^{\circ}$ angle restriction clip available (70T3553)
- All metal hinge, nickel plated
- Add-on BLUMOTION soft close available

Minimum reveal table

| Minimum reveal table |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.5 | 1.0 | 1.8 | 2.7 | 4.3 |
| 4 | 0.5 | 1.0 | 1.7 | 2.5 | 3.8 |
| 4.5 | 0.5 | 1.0 | 1.7 | 2.5 | 3.6 |
| 5 | 0.5 | 0.9 | 1.7 | 2.4 | 3.4 |
| 6 | 0.5 | 0.9 | 1.6 | 2.3 | 3.2 |
| 7 | 0.5 | 0.9 | 1.6 | 2.2 | 3.0 |
| B | 16 | 19 | 22 | 24 | 26 |
| boring |  |  |  |  |  |
| distance |  |  |  |  |  |$\quad \sqrt{|c|} \mathrm{T}=$ door thickness

Thickness greater than 26 trial recommended
Building both frame and panel cabinets

plate ( 175 H 6040 ) same boring distance


The most common overlays for frame and panel cabinets can be achieved by using the same machine setting for hinge cup boring.

Bore all doors at 4.5 mm to achieve:

- 13 ( $1 / 2^{\prime \prime}$ ) overlay on frame cabinets
- 17.5 (11/16") overlay on panel cabinets


## Advantages:

- One machine setting for boring all doors
- Same hinge used for both applications


Hinges
Ahtrm


## Overlay



Panel


| H | Overlay |  |  |  |  | P |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 14 | 15 | 16 | 17 | 11.5 | 20.5 |
| 3 | 11 | 12 | 13 | 14 | 14.5 | 23.5 |
| 4.5 | 9.5 | 10.5 | 11.5 | 12.5 | 16 | 25 |
| 6 | 8 | 9 | 10 | 11 | 17.5 | 26.5 |
| 9 | 5 | 6 | 7 | 8 | 20.5 | 29.5 |
|  | 3 | 4 | 5 | 6 | Fixed <br> distance <br> $=11$ |  |

NOTE: 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | $71 T 5550$ |
| Press-in | $71 T 5580$ |
| INSERTA | 7175590 B |
| EXPANDO | 717558 E |

## CLIP top $120^{\circ}$

Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

| Minimum reveal table |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 1.2 | 1.7 | 2.0 | 2.4 | 3.3 |
| 4 | 1.2 | 1.7 | 2.0 | 2.3 | 3.1 |
| 5 | 1.1 | 1.6 | 1.9 | 2.2 | 3.0 |
| 6 | 1.1 | 1.6 | 1.9 | 2.2 | 2.9 |
| $\mathrm{B}=$ | 16 | 18 | 19 | 20 | 22 |
| boring <br> distance | $\mathrm{T}=$ door thickness |  |  |  |  |

Thickness greater than 22 trial recommended


Panel



| H | Reveal |  |  |  | W | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 7 | 5 | 3 | 1 | 16 |  |  |
|  | 10 | 8 | 6 | 4 | 19 | 21.5 | 30 |
|  | 13 | 11 | 9 | 7 | 22 |  |  |
|  | 3 | 4 | 5 | 6 |  |  |  |
| $\mathrm{B}=$ boring distance |  |  |  |  |  |  |  |


| Half-cranked | Self close |
| :--- | ---: |
| Screw-on | $71 T 5650$ |
| Press-in | $71 T 5680$ |
| INSERTA | $71 T 5690$ B |



NOTE: Application requires a half-cranked hinge and mounting plate 175 H 5030.21


| Abbreviations |  |
| :--- | :--- |
| H | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |
| W | $=$ Side panel width |


| Half-cranked | Self close |
| :--- | ---: |
| Screw-on | 7175650 |
| Press-in | 7175680 |
| INSERTA | $71 T 5690 \mathrm{~B}$ |



## Overlay



Panel


| H | Overlay |  |  |  |  | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 16 | 17 | 17.5 | 18 | 19 | 12 | 21.5 |
| 3 | 13 | 14 | 14.5 | 15 | 16 | 15 | 24.5 |
| 4.5 | 11.5 | 12.5 | 13 | 13.5 | 14.5 | 16.5 | 26 |
| 6 | 10 | 11 | 11.5 | 12 | 13 | 18 | 27.5 |
| 9 | 7 | 8 | 8.5 | 9 | 10 | 21 | 30.5 |
|  | 3 | 4 | 4.5 | 5 | 6 | Fixed distance $=13$ |  |
|  | $B=$ boring distance |  |  |  |  |  |  |

NOTE: 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | 73 T5550 |
| Press-in | $73 T 5580$ |
| INSERTA | $73 T 5590$ B |
| EXPANDO | $73 T 558 E$ |

## Features

- For larger overlays ( $\mathbf{2 1} \mathrm{mm}$ maximum)
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available


## Partial/twin overlay



Panel


| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | $73 T 5550$ |
| Press-in | $73 T 5580$ |
| INSERTA | $73 T 5590 B$ |
| EXPANDO | $73 T 558 E$ |

## Hinges

Thickness greater than $\mathbf{2 2}$ trial recommended

Building both frame and panel cabinets


Plate (175H6040) same boring distance


The most common overlays for frame and panel cabinets can be achieved by using the same machine setting for hinge cup boring.

Bore all doors at 4.5 mm to achieve:

- 13 ( $1 / 2^{\prime \prime}$ ) overlay on frame cabinets
- 17.5 (11/16") overlay on panel cabinets


## Advantages:

- One machine setting for boring all doors
- Same hinge used for both applications

| Abbreviations |  |
| ---: | :--- |
| H | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |
| W | $=$ Side panel width |

## Hinges



## CLIP top $95^{\circ}$

Thick Door


Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 30 (1-3/16")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

| Minimum reveal table |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.4 | 0.8 | 1.0 | 1.5 | 1.9 | 2.8 | 3.6 |
| 4 | 0.4 | 0.7 | 1.0 | 1.4 | 1.8 | 2.5 | 3.1 |
| 5 | 0.4 | 0.7 | 1.0 | 1.4 | 1.8 | 2.3 | 2.7 |
| 6 | 0.4 | 0.7 | 1.0 | 1.4 | 1.8 | 2.2 | 2.5 |
| 7 | 0.4 | 0.7 | 0.9 | 1.4 | 1.7 | 2.1 | 2.4 |
| $\mathrm{B}=$ <br> boring <br> distance | 19 | 22 | 24 | 26 | 28 | 29 | 30 |

Thickness greater than $\mathbf{3 0}$ trial recommended


Panel



| 0 | 7 | 5 | 3 | 1 | - | 16 | 24 | 31 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 10 | 8 | 6 | 4 | 2 | 19 |  |  |
|  | 13 | 11 | 9 | 7 | 5 | 22 |  |  |
|  | 3 | 4 | 5 | 6 | 7 |  |  |  |
|  | $B=$ boring distance |  |  |  |  |  |  |  |


| Half-cranked | Self close | Free swing |
| :--- | ---: | ---: |
| Screw-on | 71 T9650 | 70T9650.TL |
| Press-in | 71 T9680 |  |
| INSERTA | 7179690 B |  |



| Full-cranked | Self close | Free swing |
| :--- | ---: | ---: |
| Screw-on | 71 T9750 | 70 T9750.TL |
| Press-in | 7179780 |  |
| INSERTA | 71 T9790B |  |



## CLIP top $170^{\circ}$

## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 ( $15 / 16$ ")
- $130^{\circ}$ angle restriction clip available (70.6103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available


## Hinges

| Minimum reveal table |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0 | 0 | 0 | 0 | 0.2 | 2.2 |
| 4 | 0 | 0 | 0 | 0 | 0 | 1.4 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0.9 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| B <br> boring <br> distance | 16 | 18 | 19 | 20 | 22 | 24 |
| $\mathrm{~T}=$ door thickness |  |  |  |  |  |  |

Thickness greater than 24 trial recommended


Panel


| H | Reveal |  |  |  |  |  | W | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 7 | 5 | 3 | 1 | - | - | 16 |  |  |
| 0 | 10 | 8 | 6 | 4 | 2 | 0 | 19 | 11 | 75 |
|  | 13 | 11 | 9 | 7 | 5 | 3 | 22 |  |  |
|  | 3 | 4 | 5 | 6 | 7 | 8 |  |  |  |
|  | $B=$ boring distance |  |  |  |  |  |  |  |  |


| Half-cranked | Self close | Free swing |
| :--- | ---: | ---: |
| Screw-on | 71 T6650 | 70T6650.TL |
| Press-in | 71 TG680 |  |
| INSERTA | 71 T6640B |  |


| H | Reveal |  |  |  |  |  | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 9 | 4.5 | 3.5 | 2.5 | 1.5 | 0.5 | - | 20 | 84 |
|  | 3 | 4 | 5 | 6 | 7 | 8 | Fixed distance $=-7.5$ |  |
|  | $B=$ boring distance |  |  |  |  |  |  |  |

## Inset

Inset application not recommended with $170^{\circ}$ hinges and the inset face frame adapter (175H5030.21)

Panel

Abbreviations
$\mathrm{H}=$ Plate height
$\mathrm{P}=$ Door protrusion
$\mathrm{S}=$ Side arm protrusion
$\mathrm{W}=$ Side panel width

| Half-cranked | Self close | Free swing |
| :--- | ---: | ---: |
| Screw-on | 71 T6650 | 70T6650.TL |
| Press-in | 71 T6680 |  |
| INSERTA | 71 T6640B |  |

## CLIP top $170^{\circ}$ Special Applications

 form
## Straight-Arm Applications



Thick door - twin application


Trial application recommended

NOTE: Inset application can also be achieved with either a straight-arm hinge with a $\mathbf{1 8} \mathbf{~ m m}$ plate or half-cranked hinge with 9 mm plate.
Setback of mounting plate would be $38.5 \mathrm{~mm}+$ door thickness.

| $\mathrm{Z}=$ gap |  |  |  |  | Minimum reveal table |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 15.5 | 13 | 11 | 9.5 | 7.5 | 0 | 6.5 | 14.5 | 21 |
| 25 | 29 | 32 | 35 | 38 | 22 | 25 | 29 | 32 |
| T = door thickness |  |  |  |  | T = door thickness |  |  |  |

Half-Cranked Applications


Mitered corner door application


NOTE: Special applications can be achieved in face frame cabinets by blocking out behind the frame or use of the new CLIP wing plates (pages 61-62)

| Angle restriction clip |  |  |
| :---: | :---: | :---: |
|  | $\begin{aligned} & \text { Reduces opening angle of the CLIP top } \\ & 170^{\circ} \text { to } 130^{\circ} \\ & \text { Installs quickly, easily and tool-free } \\ & \text { Black nylon } \end{aligned}$ |  |
|  |  | Part no. |
|  | Angle restriction clip | 70.6103 |


| BLUMOTION for $170^{\circ}$ hinge |
| :--- |
| BLUMOTION for $170^{\circ}$ hinge |
| CLIP top $170^{\circ}$ straight-arm |



## Hinges

## Features

- For use in cabinets with interior roll-outs
- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 ( $15 / 16^{\prime \prime}$ )
- Angle restriction clips available
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

Minimum reveal table

| Minimum reveal table |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 |
| B $=$ <br> boring <br> distance | 16 | 18 | 19 | 20 | 22 | 24 |

Thickness greater than 24 please see page 29


Panel


| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | 7177500 N |
| Press-in | 71 T 7530 N |
| INSERTA | 71 T 7540 N 01 |



NOTE: Use of $\mathbf{0} \mathbf{m m}$ or $\mathbf{3 m m}$ is recommended for zero protrusion

## BLUMOTION for $155^{\circ}$ hinges



| Hinge | X | S |
| :--- | :---: | :---: |
| CLIP top $155^{\circ}$ straight-arm | 53 | $\mathbf{6 2}$ |
| CLIP top $155^{\circ}$ half-cranked | $\mathbf{6 3}$ | $\mathbf{7 2}$ |
|  |  | Part no. |
| BLUMOTION for $155^{\circ}$ hinge |  | 973 A7000 |

## Hinge cup dimensions



## Angle restriction clips

For use with $155^{\circ} / 125^{\circ}$ zero
protrusion hinges
Gray nylon Part no.



NOTE: Inset application can also be achieved with either a straight-arm hinge with a 18 mm plate or half-cranked hinge with $\mathbf{9} \mathbf{~ m m}$ plate. Setback of mounting plate would be $38.5 \mathrm{~mm}+$ door thickness.

| Minimum reveal | T = door thickness |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 28 | 27 |  | 26 | 25 |  |
|  | 3 | 4 | 5 | 6 | 7 | *8 |
|  | $B=$ boring distance |  |  |  |  |  |

*Minimum reveal is 1 mm on a 25 mm thick door when bored at 8 mm


| $H$ | Overlay |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 19 | 22 | 24 | 26 | 28 | 30 | 32 | 34 |
|  | 8 | 11 | 13 | 15 | 17 | 19 | 21 | 23 |

Thin facing added to door


NOTE: Special applications can be achieved in face frame cabinets by blocking out behind the frame or use of the new CLIP wing plates (pages 61-62)


$155^{\circ}$

CLIP top $155^{\circ}$
Half-Cranked Special Applications

Hinges
btum


Two-sided and four-sided mitered door


Trial application recommended

Thick lip door


BLUMOTION for $155^{\circ}$ hinge


| Hinge | X | S |
| :--- | :---: | :---: |
| CLIP top $155^{\circ}$ straight-arm | 53 | 62 |
| CLIP top $155^{\circ}$ half-cranked | 63 | $\mathbf{7 2}$ |
|  |  | Part no. |
| BLUMOTION for $155^{\circ}$ hinge |  | 973A7000 |

NOTE: Special applications can be achieved in face frame cabinets by blocking out behind the frame or use of the new CLIP wing plates (pages 61-62)

| Half-cranked | Self close |
| :--- | ---: |
| Screw-on | 7177600N |
| INSERTA | 71T7640N01 |

## Angle restriction clips

For use with $155^{\circ} / 125^{\circ}$ zero
protrusion hinges

Gray nylon $\quad$| Part no. |
| :--- |
| $110^{\circ}$ restriction clip |
| $92^{\circ}$ restriction clip |

| $\mid$ Abbreviations |
| :--- |
| $H=$ Plate height |
| P $=$ Door protrusion |
| S $=$ Side arm protrusion |
| W $=$ Side panel width |

## Hinges



Panel


| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | 7177500 D |
| Press-in $\square$ | 7177530 D |

## CLIP top $125^{\circ}$

Zero Protrusion for Thicker Doors

## Features

- Zero protrusion hinge for thicker doors
- For use in cabinets with interior roll-outs
- Three-dimensional adjustment
- For door thicknesses up to 30 (1-3/16")
- $92^{\circ}$ angle restriction clip available (70T7503N)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

| Minimum reveal table |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| B boring <br> distance | 19 | 20 | 22 | 24 | 26 | 28 | 30 |

Thickness greater than $\mathbf{3 0} \mathbf{m m}$, see next page

## Door protrusion

At $90^{\circ}$ opening, using 0 mm plate, the door will have $-\mathbf{1 . 7} \mathrm{mm}$ protrusion regardless of boring distance. Use side adjustment to increase or decrease door protrusion.


## NOTE: Use of $\mathbf{0} \mathbf{m m}$ or $\mathbf{3} \mathrm{mm}$ is recommended for zero protrusion

## Hinges per door

This chart can serve as a guide for determining the number of hinges per door. Note that door weight can also determine the number of hinges required for each door.

NOTE: The distance between the top and bottom hinges must be greater than the width of the door


## Hinge cup dimensions




| Abbreviations |
| :--- |
| $\mathrm{H}=$ Plate height |
| $\mathrm{P}=$ Door protrusion |
| $\mathrm{S}=$ Side arm protrusion |
| T |
| W Door thickness |



NOTE: Thickness of 30 mm or greater, angle restriction clip required


NOTE: Must use angle restriction clip to achieve application

NOTE: Inset application can also be achieved with a straight-arm hinge with a 18 mm plate.
Setback of mounting plate would be $38.5 \mathrm{~mm}+$ door thickness.


For all special applications, a trial application is always recommended
NOTE: Special applications can be achieved in face frame cabinets by blocking out behind the frame or use of the new CLIP wing plates (pages 61-62)


Protrusion dimensions


## Hinges



Flush door applications


Back of door is flush with stationary panel


## CLIP top $95^{\circ}$

Inset Blind Corner


Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 ( $15 / 16$ ")
- All metal hinge, nickel-plated

| Minimum reveal table |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 4 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 5 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 6 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.2 |
| 7 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.2 |
| $\mathrm{B}=$ <br> boring <br> distance | 16 | 18 | 19 | 20 | 22 | 24 |

Thickness greater than $\mathbf{2 4}$ trial recommended

## Offset door applications



| Inset blind corner | Self close |
| :--- | ---: |
| Screw-on | 79T9550 |
| Press-in | 79 T9580 |
| INSERTA | $79 T 9590$ B |


| Inset blind corner | Self close |
| :--- | ---: |
| Screw-on | 79 T9550 |
| Press-in | 79 T9580 |
| INSERTA | 79 T9590B |


| Abbreviations |  |
| :--- | :--- |
| $H$ | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |



## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 ( $15 / 16$ ")
- All metal hinge, nickel-plated


## Hinges

| Minimum reveal table |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 4 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 5 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.3 |
| 6 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.2 |
| 7 | 0.1 | 0.3 | 0.4 | 0.5 | 0.9 | 1.2 |
| $\mathrm{B}=$ <br> boring <br> distance | 16 | 18 | 19 | 20 | 22 | 24 |
| $\mathrm{~T}=$ door thickness |  |  |  |  |  |  |

Thickness greater than 24 trial recommended


| H | Gap |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 0 | 7 | 4 | 1 | 21 |
| 3 | 4 | 1 | - | 24 |
| 6 | 1 | - | - | 27 |
|  | 16 | 19 | 22 |  |
|  | FP $=$ front panel thickness |  |  |  |

NOTE: The door gap varies depending on the stationary panel thickness and the mounting plate height. Use the table to cross-reference the plate height based on the front panel thickness and door gap.
Abbreviations
$\mathrm{D}=$ Depth
$\mathrm{FP}=$ Front panel thickness
$\mathrm{H}=$ Plate height
$\mathrm{P}=$ Door protrusion
$\mathrm{S}=$ Side arm protrusion

NOTE: Door overlay varies depending on the setback position of the mounting plate. Use the table to select the desired overlay and cross-reference to the plate setback and boring distance.

| Overlay blind corner | Self close |
| :--- | ---: |
| INSERTA | $79 T 9990$ B37 |

Hinges
40tum


## Overlay



Panel


| $H$ | Overlay | $P$ | $S$ |
| :---: | :---: | :---: | :---: |
| 0 | 15 | 8 | 19.5 |
| 3 | 12 | 11 | 22.5 |
| 4.5 | 10.5 | 12.5 | 24 |
| 6 | 9 | 14 | 25.5 |
| 9 | 6 | 17 | 28.5 |
|  | Fixed boring distance |  |  |

NOTE: 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | $73 T 550 \mathrm{AB}$ |

CLIP top $120^{\circ}$
Aluminum Door for BLUMOTION


## Features

- For use with BLUMOTION 973A
- Three-dimensional adjustment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated

| Minimum reveal table |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 18 | 1.5 | 1.9 | 2.4 | 2.9 | 3.7 |
| 19 | 1.5 | 1.8 | 2.2 | 2.7 | 3.3 |
| 20 | 1.4 | 1.8 | 2.2 | 2.6 | 3.1 |
| 21 | 1.4 | 1.7 | 2.1 | 2.5 | 3.0 |
| 22 | 1.3 | 1.7 | 2 | 2.4 | 2.9 |
| Door <br> frame <br> width | 18 | 19 | 20 | 21 | 22 |
| T = door thickness |  |  |  |  |  |

Thickness greater than $\mathbf{2 2}$ trial recommended


BLUMOTION 973A shown attached

$120^{\circ}$

## CLIP top $120^{\circ}$ Aluminum Door

- Not for use with BLUMOTION 973A
- Three-dimensional adjustment
- For door thicknesses up to 22 (7/8")
- All metal hinge, nickel-plated


## Hinges

ablum

| Minimum reveal table |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 18 | 1.5 | 1.9 | 2.4 | 2.9 | 3.7 |
| 19 | 1.5 | 1.8 | 2.2 | 2.7 | 3.3 |
| 20 | 1.4 | 1.8 | 2.2 | 2.6 | 3.1 |
| 21 | 1.4 | 1.7 | 2.1 | 2.5 | 3.0 |
| 22 | 1.3 | 1.7 | 2 | 2.4 | 2.9 |
| Door <br> frame <br> width | 18 | 19 | 20 | 21 | 22 |
| T $=$ door thickness |  |  |  |  |  |

Thickness greater than $\mathbf{2 2}$ trial recommended


## Hinges

## CLIP top $110^{\circ}$ <br> Diagonal $45^{\circ}$



## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 19 (3/4")
- All metal hinge, nickel-plated


Thickness greater than 19 trial recommended

## Calculating door width

Step 1. Using the boring distance (B) determined in the reveal table, cross-reference to find the side gap distance $(\mathrm{Y})$ in the table below.

Step 2. Using the following formula to find the door width. Door width = interior width minus ( $\mathrm{Y} \times 2$ ).

Example: Interior width $=\mathbf{4 0 0} \mathbf{m m}$, side gap $(Y)=4.5 \mathrm{~mm}$.

$$
391=400 \text { minus }(4.5 \times 2)
$$



| $\mathrm{Y}=$ side gap |  |  |  |
| :---: | :---: | :---: | :---: |
| 5.5 | 4.5 | 3.5 | 2.5 |
| 3 | 4 | 5 | 6 |
| $\mathrm{~B}=$ boring distance |  |  |  |

NOTE: Based on 19 (3/4") door thickness



## Hinges

Thickness greater than 26 trial recommended


Panel


| $H$ | Overlay |  |  | $P$ | S |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 13 | 14 | 15 | 6 | 19 |
| 3 | 10 | 11 | 12 | 9 | 22 |
| 4.5 | 8.5 | 9.5 | 10.5 | 11 | 23.5 |
| 6 | 7 | 8 | 9 | 12 | 25 |
| 9 | 4 | 5 | 6 | 15 | 28 |
|  | 3 | 4 | 5 | Fixed <br> distance <br> $=10$ |  |

NOTE: 4.5 plate is only for use in face frame cabinets, 9 plate is only for panel cabinets

| Straight-arm | Self close |
| :--- | ---: |
| Screw-on | $71 T 0550$ |

## Features

- For small doors or doors with small frames
- Side adjustment of $\mathbf{+ 0 . 5} \mathrm{mm}$ to $\mathbf{- 3 . 5} \mathbf{~ m m}$
- 26 mm drill bit required (1" cannot be used)
- Three-dimensional adjustment
- For door thicknesses up to 26 (1")
- All metal hinge, nickel-plated



| Half-cranked | Self close |
| :--- | ---: |
| Screw-on | $71 T 0650$ |



| Abbreviations |  |
| :--- | :--- |
| H | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |
| T | $=$ Door thickness |
| W | $=$ Side panel width |


| Full-cranked | Self close |
| :--- | ---: |
| Screw-on | $71 T 0750$ |

4btrin


## Features

- For glass thickness of 4.5 mm to $\mathbf{7 m m}$
- Side adjustment of +0.5 mm to $-\mathbf{3 . 5} \mathrm{mm}$
- Three-dimensional adjustment
- Fixing screws included (605.1100)
- 26 mm drill bit required (1" cannot be used)

| Minimum reveal table |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 5.5 | 0 | 0 | 0 | 0 |
| 6 | 0 | 0 | 0 | 0 |
| 6.5 | 0 | 0 | 0 | 0 |
| 7 | 0 | 0 | 0 | 0 |
| $\mathrm{B}=$ <br> boring <br> distance | 4.5 | 5 | 6 | 7 |
| $\mathrm{~T}=$ door thickness |  |  |  |  |

Thickness greater than 7 trial recommended


## Boring pattern



| H | Reveal |  |  |  | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | 2.5 | 2 | 1.5 | 1 | 23.5 | 32 |
|  | 5.5 | 6 | 6.5 | 7 | Fixeddistance$=-8$ |  |
|  | $\mathrm{B}=$ boring distance |  |  |  |  |  |


| Abbreviations |  |
| :---: | :---: |
| H | $=$ Plate height |
| P | = Door protrusion |
| S | = Side arm protrusion |
| T | = Door thickness |
| W | = Side panel width |


| Half-cranked | Self close |
| :--- | ---: |
| Screw-on | $75 T 4200$ |


| Full-cranked | Self close |
| :--- | ---: |
| Screw-on | $75 T 4300$ |



## CLIP top $60^{\circ}$ <br> Bi-Fold

## Features



- Spiral tech side adjustment for door gap
- Spiral tech depth adjustment for in/out
- Four-dimensional adjustment
- All metal hinge, nickel-plated


## Inside corner application



## With flat panel doors



## Adjustment



## Bi-fold hinges

 Self close7978500.10

Press-in $\quad$ 79T8530.10

## With profile doors

Frame adapter plate 175 H 6000


## General specifications



## Hinges

40m

## Calculating door sizes

The doors for a CLIP top bi-fold application can be of equal or unequal width. To calculate the door width (DW) of each door follow the step-by-step below.

Step 1. Add the interior width to the side panel width (W)

Step 2. Subtract door thickness ( $T$ ) and reveal (R)

Step 3. Subtract gap (G) and bumper thickness behind adjacent door

Formula: $\mathrm{DW}=(\mathrm{IW}+\mathrm{W})$ minus T minus $R$ minus $G$

Example: DW = (500 + 19) -19-3-1
DW $=496 \mathrm{~mm}$


| Abbreviations |  |
| ---: | :--- |
| DW | $=$ Door width |
| G | $=$ Gap |
| H | $=$ Plate height |
| IW | $=$ Interior width |
| R | $=$ Reveal |
| T | $=$ Door thickness |
| W | $=$ Side panel width |



## Features

- Three-dimensional adjustment
- For door thicknesses up to 22 (7/8")
- $86^{\circ}$ angle restriction clip available (74.1103)
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available

| Minimum reveal table |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.6 | 1.0 | 1.3 | 1.7 | 2.5 |
| 4 | 0.6 | 1.0 | 1.3 | 1.6 | 2.4 |
| 5 | 0.6 | 1.0 | 1.2 | 1.5 | 2.2 |
| 6 | 0.6 | 1.0 | 1.2 | 1.4 | 2.0 |
| $\mathrm{B}=$ <br> boring <br> distance | 16 | 18 | 19 | 20 | 22 |

Thickness greater than 22 trial recommended

| Abbreviations |  |
| :--- | :--- |
| H | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |
| T | $=$ Door thickness |
| W | $=$ Side panel width |



## Features

- Three-dimensional adjustment
- Available with INSERTA attachment
- For door thicknesses up to 24 (15/16")
- All metal hinge, nickel-plated
- Add-on BLUMOTION soft close available


## Hinges

| Minimum reveal table |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 3 | 0.5 | 0.9 | 1.1 | 1.4 | 2.3 | 3.6 |
| 4 | 0.5 | 0.8 | 1.0 | 1.3 | 2.0 | 3.3 |
| 5 | 0.4 | 0.8 | 1.0 | 1.2 | 1.8 | 3.0 |
| 6 | 0.4 | 0.8 | 0.9 | 1.1 | 1.7 | 2.8 |
| $\mathrm{B}=$ <br> boring <br> distance | 16 | 18 | 19 | 20 | 22 | 24 |

Thickness greater than 24 trial recommended


| H | Reveal |  |  |  | W | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 7 | 5 | 3 | 1 | 16 |  |  |
| 0 | 10 | 8 | 6 | 4 | 19 | 18.5 | 30 |
|  | 13 | 11 | 9 | 7 | 22 |  |  |
|  | 3 | 4 | 5 | 6 |  |  |  |
|  | $\mathrm{B}=$ boring distance |  |  |  |  |  |  |


| Half-cranked | Self close | Free swing |
| :--- | ---: | ---: |
| Screw-on | 71 M2650 | 70M2650.TL |
| Press-in | 71 M 2680 |  |
| INSERTA | 71 M 2690 B |  |

## Inset



NOTE: This application uses a half-cranked hinge and mounting plate 175 H 5030.21


| H | Reveal |  |  |  | P | S |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\mathbf{0}$ | $\mathbf{4}$ | $\mathbf{3}$ | $\mathbf{2}$ | $\mathbf{1}$ | $\mathbf{2 7}$ | $\mathbf{3 8}$ |
|  | $\mathbf{3}$ | $\mathbf{4}$ | $\mathbf{5}$ | $\mathbf{6}$ | Fixed <br> distance <br> $=-7$ |  |


| Abbreviations |  |
| :--- | :--- |
| $H$ | $=$ Plate height |
| P | $=$ Door protrusion |
| S | $=$ Side arm protrusion |
| T | $=$ Door thickness |
| W | $=$ Side panel width |


| Full-cranked | Self close | Free swing |
| :--- | ---: | ---: |
| Screw-on | 71 M 2750 | 70M2750.TL |
| Press-in | 71 M 2780 | $70 \mathrm{M} 2780 . \mathrm{TL}$ |
| INSERTA | 71M2790B |  |

## Angled hinges from $+45^{\circ}$ to $-45^{\circ}$

Angled hinges provide a tremendous array of possibilities for the professional cabinet designer. Specifically designed for panel constructed (frameless) cabinets, the system accommodates cabinet front angles from $-45^{\circ}$ to $+45^{\circ}$, in $5^{\circ}$ increments. This is achieved by combining any of ten angled hinges, or three standard hinges with a wedge spacer and any of five standard CLIP mounting plates.

All CLIP top hinges feature "spiral tech" depth adjustment which eliminates loosening and retightening the adjustment screws. When the doors are ready to be attached to the cabinet, the time-proven CLIP mechanism connects the hinge arm to the mounting plate, again without tools. All components are nickelplated and have self-closing action, eliminating the need for additional hardware.

Step 1.

On page 47, the angle-to-style cross-reference provides an overview of all the angled hinge applications available to assist with your specific application.

## Step 2.

Once the cabinet front angle is determined, select the row for that angle from the first column. There are five different possibilities for positive angles and two for negative angles.

## Step 3.

Cross-reference the angle to the style to find the hinge/ plate/wedge combination and the specification number. Specifications on pages 48 to 54 are in numerical order and show all the details.

## Angled Hinges CLIP top BLUMOTION and CLIP top

## Hinges


*These angled hinges are marked I, II, or III on the hinge arm for differentiation (see photo)

Negative Angle Hinges


Standard Thick Door Hinges Used in Angled Applications


Angled Spacer Wedges for Positive and Negative Angled Hinges

| 2 mm thickness |  | 4 mm thickness |  | 5 mm thickness |  | 7 mm thickness |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Part no. |  | Part no. |  | Part no. |  | Part no. |
| $-5^{\circ}$ | 171 A5500 | $+5^{\circ}$ | 171A5010 | $+5^{\circ}$ | 171A5040 | $+5^{\circ}$ | 171A5070 |

## folum

Match desired configuration to angle-to-style cross-reference chart on page 47



Application number

| hinge | CLIP top BLUMOTION | Part number |
| :--- | :--- | :--- |
| hinge | CLIP top | Part number |
| plate | Mounting plate | Part number |
| wedge/spacer | May or may not be required | Part number |

NOTE: All 35 mm and 8 mm holes must be a minimum of 13 mm deep

|  | Positive angles |  |  |  |  |  | Negative angles |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | $\pm$ | $\pm$ |
|  | Maximum overlay | Partial overlay | Corner merge | Inset door | Mitered corner |  | Maximum overlay | Inset door |
| $5^{\circ}$ | 1 | 10 | 19 | 27 |  | $5^{\circ}$ | 42 | 51 |
|  | 7189590 | 7189590 | 7189690 | 7189790 |  |  | 7189590 | 7189690 |
|  | 71T9590B | 71T9590B | 71T9690B | 71T9790B |  |  | 71T9590B | 71T9690B |
|  | 173 H 7100 | 173 H 7100 | 173 H 7100 | 173 H 7100 |  |  | 173 H 7100 | 173 H 7100 |
|  | 171 A5010 | 171 A5010 | 171 A5070 | 171 A5010 |  |  | 171 A5500 | 171 A5500 |
| $10^{\circ}$ | 2 | 11 | 20 | 28 |  | $10^{\circ}$ | 43 | 52 |
|  | 7989494 | 7989494 | 7989494 | 7989494 |  |  | 7983493 | 7983493 |
|  | 79A9494BT | 79A9494BT | 79A9494BT | 79A9494BT |  |  | 79A5493BT | 79A5493BT |
|  | 173 H 7100 | 173 H 7100 | 175H9190.22 | 175H9190.22 |  |  | 173 H 7100 | 175 H 7190 |
|  | 171 A5500 | 171 A5500 | 171 A5500 | 171 A5500 |  |  | 171 A5010 | 171 A5010 |
| $15^{\circ}$ | 3 | 12 | 21 | 29 | 36 | $15^{\circ}$ | 44 | 53 |
|  | 7989494 | 7989494 | 7989595 | 7989595 | 7989595 |  | 7983493 | 79B3493 |
|  | 79A9494BT | 79A9494BT | 79A9595BT | 79A9595BT | 79A9595BT |  | 79A5493BT | 79A5493BT |
|  | 175H9160 | 175H9190 | 173 H 7130 | 175H9190 | 173 H 7100 |  | 173 H 7100 | 175H9190.22 |
|  |  |  | 171 A5500 | 171 A5500 | 171 A5500 |  |  |  |
| $20^{\circ}$ | 4 | 13 | 22 | 30 | 37 | $20^{\circ}$ | 45 | 54 |
|  | 7989494 | 7989595 | 7989595 | 7989595 | 7989595 |  | 79B3493 | 7983493 |
|  | 79A9494BT | 79A9595BT | 79A9595BT | 79A9595BT | 79A9595BT |  | 79A5493BT | 79A5493BT |
|  | 173 H 7100 | 173 H 7100 | 175 H 9190 | 175H9190.22 | 175H9160 |  | 173 H 7100 | 175H9160 |
|  | 171 A5070 |  |  |  |  |  | 171 A5500 | 171 A5500 |
| $25^{\circ}$ | 5 | 14 | 23 | 31 | 38 | $25^{\circ}$ | 46 | 55 |
|  | 7989496 | 7989595 | 7989596 | 7989596 | 7989596 |  | 7983491 | 79B3491 |
|  | 79A9496BT | 79A9595BT | 79A9596BT | 79A9596BT | 79A9596BT |  | 79A5491BT | 79A5491BT |
|  | 173 H 7100 | 173 H 7100 | 173 H 7100 | 175H9190.22 | 173 H 7100 |  | 173 H 7100 | 175H7190 |
|  | 171 A5500 | 171 A5010 | 171 A5500 |  | 171 A5500 |  | 171 A5040 | 171 A5070 |
| $30^{\circ}$ | 6 | 15 | 24 | 32 | 39 | $30^{\circ}$ | 47 |  |
|  | 7989496 | 7989596 | 7989596 | 7989596 | 7989596 |  | 7983491 |  |
|  | 79A9496BT | 79A9596BT | 79A9596BT | 79A9596BT | 79A9596BT |  | 79A5491BT |  |
|  | 175H9160 | 173 H 7100 | 175H9190 | 175H9190.22 | 173 H 7130 |  | 173 H 7130 |  |
| $35^{\circ}$ | 7 | 16 | 25 | 33 | 40 | $35^{\circ}$ | 48 |  |
|  | 7989496 | 7989596 | 7989596 | 7989596 | 7989596 |  | 7983491 |  |
|  | 79B9496BT | 79A9596BT | 79A9596BT | 79A9596BT | 79A9596BT |  | 79A5491BT |  |
|  | 173 H 7100 | 173 H 7100 | 173 H 7100 | 175H9190.22 | 173 H 7100 |  | 173 H 7100 |  |
|  | 171 A5070 | 171 A5010 | 171 A5070 | 171 A5010 | 171 A5040 |  | 171 A5500 |  |
| $40^{\circ}$ | 8 | 17 |  | 34 |  | $40^{\circ}$ | 49 |  |
|  | 7989498 | 7989498 |  | 7989698 |  |  | 79B3490 |  |
|  | 79A9498BT | 79A9498BT |  | 79A9698BT |  |  | 79A5490BT |  |
|  | 173 H 7100 | 175 H 9160 |  | 175H9190 |  |  | 173 H 7100 |  |
|  | 171 A5500 | 171 A5500 |  | 171 A5500 |  |  | 171 A5040 |  |
| $45^{\circ}$ | 9 | 18 | 26 | 35 | 41 | $45^{\circ}$ | 50 | 56 |
|  | 7989498 | 79B3598 | 7989698 | 7983598 | 7989698 |  | 7983490 | 7983490 |
|  | 79A9498BT | 79T5590B | 79A9698BT | 79T5590B | 79A9698BT |  | 79A5490BT | 79A5490BT |
|  | 175H9160 | 173 H 7100 | 173 H 7100 | 175H9190.22 | 173 H 7100 |  | 173 H 7130 | 175 H 7190 |
|  |  |  |  |  |  |  |  | 181.6130 |



Positive Angle Applications


| Hinge | Mounting plate | Wedge |
| :---: | :---: | :---: |
| 79B9494 | $173 H 7100$ | 171A5500 |
| 79A9494BT | $173 H 7100$ | 171A5500 |

NOTE: CLIP top BLUMOTION CLIP top



Positive Angle Applications


| Hinge | Mounting plate | Wedge |
| :---: | :---: | :---: |
| 79B9595 | 173 H7100 | - |
| 79A9595BT | $173 H 7100$ | - |




Positive Angle Applications


| Hinge | Mounting plate | Wedge |
| :---: | :---: | :---: |
| 71B9690 | $173 H 7100$ | 171 A5070 |
| 71T9690B | $173 H 7100$ | 171 A5070 |




| Hinge | Mounting plate | Wedge |
| :---: | :---: | :---: |
| 79B9596 | 175 H 9190 | - |
| 79A9596BT | 175 H 9190 | - |



Positive Angle Applications


| Hinge | Mounting plate | Wedge |
| :---: | :---: | :---: |
| 79B9596 | 175H9190.22 | 171A5010 |
| 79A9596BT | 175H9190.22 | 171A5010 |

NOTE: CLIP top BLUMOTION CLIP top


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## Mitered Corner Specifications

Positive Angle Applications




## Hinges

 forminNOTE: CLIP top BLUMOTION CLIP top


| Hinge | Mounting plate | Wedge |
| :---: | :---: | :---: |
| 79B9595 | $173 H 7100$ | 171 A5500 |
| 79A9595BT | $173 H 7100$ | 171A5500 |



## Negative Angle Applications



| Hinge | Mounting plate | Wedge |
| :---: | :---: | :---: |
| 71B9590 | $173 H 7100$ | 171A5500 |
| 71T9590B | $173 H 7100$ | 171A5500 |



NOTE: CLIP top BLUMOTION CLIP top


| Hinge | Mounting plate | Wedge |
| :---: | :---: | :---: |
| 79B3493 | 173 H7100 | - |
| 79A5493BT | $173 H 7100$ | - |



Negative Angle Applications


| Hinge | Mounting plate | Wedge |
| :---: | :---: | :---: |
| 79B3493 | 175 H 9160 | 171A5500 |
| 79A5493BT | 175 H 9160 | 171A5500 |



NOTE: CLIP top BLUMOTION CLIP top


## CLIP Accessories

## 4014

Hinge arm cover cap


## Hinge cup spacer

- $\mathbf{1 . 5} \mathbf{~ m m}$ spacer for use under the hinge cup
- Use to retrofit existing doors with a cup depth less than 13 mm
- Non-stackable



## Hinge cup cover cap

- For use with CLIP top hinges only
- Suitable for screw-on, press-in and EXPANDO hinge cups for CLIP top $107^{\circ}, 120^{\circ}, 120^{\circ}+$, thick door and blind corner hinges
- Clip on attachment/removal
- Steel, nickel-plated

Part no.
Hinge cup cover cap
70T1504

## Hinge cup cover cap

- For use with CLIP top BLUMOTION hinges
- Suitable for screw-on, press-in and EXPANDO hinge cups
- Can also be used with CLIP top $110^{\circ}$ and $110^{\circ}+$ hinges
- Steel, nickel-plated



## Angle Restriction Clips

## Hinges

Angle restriction clip for $107^{\circ}$ hinges

|  |  | ```- Reduces opening angle of the CLIP top and CLIP \(107^{\circ}\) to \(86^{\circ}\) - For use with CLIP top and CLIP \(107^{\circ}\) hinges only - Installs quickly, easily and tool-free - Non-removable - Black nylon``` |  |
| :---: | :---: | :---: | :---: |
|  |  | $86^{\circ}$ Angle restriction clip | 74.1103 |

## Angle restriction clip for $110^{\circ}$ hinges



Angle restriction clip for $170^{\circ}$ hinges

| Reduces opening angle of the CLIP top $170^{\circ}$ to $130^{\circ}$ |
| :--- |
| -Required for special applications of the $170^{\circ}$ hinge <br> Installs quickly, easily and tool-free <br> - <br> Black nylon |
| Part no. |
| $1300^{\circ}$ Angle restriction clip |

Angle restriction clips for zero protrusion hinges


NOTE: Restriction clip $70 T 7503 \mathrm{~N}$ provides the $155^{\circ}$ hinge with $110^{\circ}$ and the $125^{\circ}$ hinge with $92^{\circ}$

## CLIP Mounting Plates

## 4blum

## Standard one-piece wing mounting plates



System screw



| $\begin{aligned} & \text { - Steel, nickel-plated } \\ & \text { - Attached with \#6 } \times 5 / 8 \text { " wood screws } \\ & \text { Height adjustment } \pm 3 \mathrm{~mm} \end{aligned}$ |  |
| :---: | :---: |
|  | Part no. |
| 0 plate height ( H ) | $173 \mathrm{L6100}$ |
| 3 plate height ( H ) | 173 L 6130 |
| $\begin{aligned} & \text { Steel, nickel-plated } \\ & \text { - Attached with pre-mounted } \emptyset 5 \mathrm{~mm} \text { system screws } \\ & \text { (668.1450.EH) } \\ & \text { Height adjustment } \pm 3 \mathrm{~mm} \end{aligned}$ |  |
|  | Part no. |
| 0 plate height ( H ) | 173L8100 |
| 3 plate height ( H ) | 173L8130 |

- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels (618.1500)
- Height adjustment $\pm 2 \mathrm{~mm}$
- Zinc die-cast, nickel-plated
- Attached with pre-mounted $\varnothing 5 \mathrm{~mm}$ system screws (668.1450.EH)
- Height adjustment $\pm 3 \mathrm{~mm}$


Part no.

| 0 plate height $(\mathrm{H})$ | $175 \mathrm{~L}-8100$ |
| :--- | ---: |
| 3 plate height $(\mathrm{H})$ | 175 L 8130 |
| 9 plate height $(\mathrm{H})$ | 175 L 8190 |

*Add additional wood screw if used with wide angled hinges

## Cam adjustable wing mounting plates

Part no.

- Steel, nickel-plated
- Attached with pre-mounted screws with EXPANDO dowels for twin application (618.1500)
- Cam height adjustment $\pm 2 \mathrm{~mm}$

Part no.
0 plate height (H)
174H710ZE

- Steel (closing lever - zinc die-cast, nickel-plated)
- Tool-free assembly with INSERTA self-anchoring feature
- Cam height adjustment $\pm 2 \mathrm{~mm}$

Part no.

| 0 plate height $(\mathrm{H})$ | 174H7100I |
| :--- | :--- |
| 3 plate height $(\mathrm{H})$ | 174 H 7130 I |

## CLIP Mounting Plates

## 96THO

Standard two-piece wing mounting plates


Cam adjustable in-line mounting plates

*Add additional wood screw if used with wide angled hinges

## Hinges

Face frame adapter plates


NOTE: Use of PLATEMATE required with all face frame adapter plates. Reference page 98

## Inset face frame adapter

Truss head screw | Zinc die-cast, nickel-plated |
| :--- |
| Attached with \#8 $\times 3 / 4$ " truss head screws |

## 40)

## Cam adjustable wing mounting plates



## Frameless Applications



NOTE: With our new CLIP wing mounting plate program, all three of the common frameless applications, (full overlay, half overlay and inset) can be achieved with a straight-arm hinge and cam height adjustment. An alternative inset application, includes the use of a half-cranked hinge and 9 mm cam height adjustment mounting plate.





Hinges 4blum


NOTE: $\mathrm{B}=$ Bore Distance | $\mathrm{H}=$ Plate Height $\mid \mathrm{R}=$ Reveal | $\mathrm{T}=$ Door Thickness

Hinges

## BLUMOTION for doors Overview for CLIP Hinges



## Hinges



Hinges

## BLUMOTION 973A for CLIP Hinges



## Features

- Soft-closing feature for CLIP top and CLIP hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Automatically adjusts to the closing force of the door
- Simple attachment to the hinge arm
- Designed for use with Blum CLIP hinges only
- Nickel-plated steel and gray nylon



## For straight-arm hinges



- CLIP top $107^{\circ}$
- CLIP top $110^{\circ}$
- CLIP top $110^{\circ}+$
- CLIP top $120^{\circ}$
- CLIP top $120^{\circ}+$
- CLIP top $95^{\circ}$ thick door
- CLIP top $120^{\circ}$ aluminum door
- CLIP $100^{\circ}$
- CLIP $107^{\circ}$

Part no.
Straight-arm

For half-cranked arm hinges


For full-cranked arm hinges


## General Specifications

## Hinges

## Specifications

For $170^{\circ}$ hinges

|  | $=$ CLIP top $170^{\circ}-$ straight-arm |
| ---: | :--- |
|  | $=$ CLIP top $170^{\circ}-$ half-cranked |



| Hinge | X | S |
| :--- | :---: | :---: |
| CLIP top $170^{\circ}$ straight-arm | $\mathbf{4 9}$ | $\mathbf{6 5}$ max. |
| CLIP top $170^{\circ}$ half-cranked | $\mathbf{6 8}$ | $\mathbf{7 5}$ max. |

Part no.
NOTE: Additional clearance of 41 mm needed above and below for interior roll-out

## For zero protrusion hinges $155^{\circ} / 125^{\circ}$

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | CLIP top $155^{\circ}$ | X | S | CLIP top $125^{\circ}$ | X | S |
|  | Straight-arm | 53 | 62 | Straight-arm | 57 | 63 |
|  | Half-cranked | 63 | 72 |  |  |  |

NOTE: Additional clearance of 41 mm needed above and below for interior roll-out


## Removal

Pull forward and up simultaneously


## BLUMOTION per door

- BLUMOTION 973A is designed for one BLUMOTION per self closing hinge, however, quantities may vary depending on door size and weight
- Small or light doors may only require one BLUMOTION
- Trial application recommended


Hinges
96/vin


## Features

- Soft-closing feature for CLIP top and CLIP straight-arm hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Adjustable to various door sizes and weights (+3/-7 mm range)
- Installed onto hinge-side panel
- For use with straight-arm hinge and either $\mathbf{0 ~ m m}$ or $\mathbf{3 m m}$ mounting plate only
- Nickel-plated steel and gray nylon


Face frame adapter plate (screw-on)


## Specifications

## BLUMOTION per door

- For optimum BLUMOTION effect, BLUMOTION 971A should be installed onto the hinge-side panel centered between the two hinges
- Tall or heavy doors may require an additional BLUMOTION 971A between the hinges
- Trial application recommended

```
BLUMOTION 971A
- Hinges
```



## 0 mm BLUMOTION application

- For all hinges with a straight-arm and a $\mathbf{0} \mathbf{~ m m}$ mounting plate



## Adjustment

- Use a Phillips or POZI screwdriver to adjust the contact point in or out (+3/-7 mm)
- Adjust out for larger, heavier doors or adjust in for smaller, lighter doors


Hinges 9/twin


## Features

- Soft-closing feature for CLIP top and CLIP hinges
- Offers the same quality of motion as drawer systems with BLUMOTION
- Automatically adjusts to the closing force of the door
- Installed into the top and/or bottom panel or with adapter plates on hinge-side
- Gray nylon


## BLUMOTION 970A for CLIP Hinges



## BLUMOTION per door

- BLUMOTION 970A is designed for two BLUMOTION per door, however, one may be enough depending on door size and weight
- Small or light doors may only require one BLUMOTION
- Trial application recommended
BLUMOTION 970A
- Hinges



## Face frame adapter (screw-on)



Wing adapter (EXPANDO)


In-line adapter (screw-on)
20 mm setback, 32 mm apart
Two-piece design


Standard Application

|  |  | Overlay boring distance | Twin boring distance |  | Inset boring distance |  | Inset with straight-arm boring distance |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mounting plate height | 0 mm | 32 | 0 mm | 41 | 0 mm | 50 | 18 mm | 50 |
|  | 3 mm | 35 | 3 mm | 44 | 3 mm | 53 |  |  |
|  | 6 mm | 38 | 6 mm | 47 |  |  |  |  |
|  | 9 mm | 41 | 9 mm | 50 |  |  |  |  |

Blind Corner Applications

|  | $=$ | Inset blind corner boring distance | $\Rightarrow \begin{aligned} & \text { O } \\ & \text { bo } \end{aligned}$ | Overlay blind corner boring distance |
| :---: | :---: | :---: | :---: | :---: |
| Mounting plate height | 3 mm |  | 0 mm | 32 |
|  |  | 51 | 3 mm | 35 |
|  |  |  | 6 mm | 38 |

Angled Applications (reference angle applications page (47 to 54)

|  | $5$ | Max. overlay boring distance | $4$ | Partial overlay boring dist. |  | Corner merge boring distance | $5$ | Inset boring distance | 5 | Mitered corner boring distance |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $5^{\circ}$ | 1 | 33 | 10 | 33 | 19 | 48 | 27 | 48 | 36 | 45 |
| $10^{\circ}$ | 2 | 33 | 11 | 33 | 20 | 48 | 28 | 48 | 37 | 45 |
| $15^{\circ}$ | 3 | 33 | 12 | 33 | 21 | 48 | 29 | 48 | 38 | 45 |
| $20^{\circ}$ | 4 | 33 | 13 | 37 | 22 | 48 | 30 | 48 | 39 | 45 |
| $25^{\circ}$ | 5 | 33 | 14 | 37 | 23 | 48 | 31 | 48 | 40 | 45 |
| $30^{\circ}$ | 6 | 33 | 15 | 41 | 24 | 48 | 32 | 48 | 41 | 45 |
| $35^{\circ}$ | 7 | 33 | 16 | 41 | 25 | 48 | 33 | 48 |  |  |
| $40^{\circ}$ | 8 | 33 | 17 | 41 |  |  | 34 | 48 |  |  |
| $45^{\circ}$ | 9 | 33 | 18 | 41 | 26 | 48 | 35 | 48 |  |  |
| $-5^{\circ}$ | 42 | 37 |  |  |  |  | 51 | 48 |  |  |
| $-10^{\circ}$ | 43 | 33 |  |  |  |  | 52 | 54 |  |  |
| $-15^{\circ}$ | 44 | 33 |  |  |  |  | 53 | 54 |  |  |
| $-20^{\circ}$ | 45 | 37 |  |  |  |  | 54 | 54 |  |  |
| $-25^{\circ}$ | 46 | 33 |  |  |  |  | 55 | 54 |  |  |
| $-30^{\circ}$ | 47 | 33 |  |  |  |  |  |  |  |  |
| $-35^{\circ}$ | 48 | 37 |  |  |  |  |  |  |  |  |
| $-40^{\circ}$ | 49 | 37 |  |  |  |  |  |  |  |  |
| $-45^{\circ}$ | 50 | 37 |  |  |  |  | 56 | 54 |  |  |



## Mounting

The TIP-ON unit can be either bored into the cabinet end panel or a attached to the cabinet interior using adapter plates.


## Catch plate

The catch plate is the counterpart to TIP-ON. It is available in self-adhesive or screw-on versions.


## Hinges

Free swing hinges are used with TIP-ON for doors with magnet/ self close hinges are used with TIP-ON for doors with bumper.

## TIP-ON for doors

Opening comfort for doors without handles
Doors can be opened easily with TIP-ON - a light touch is all that's needed

- Designed for panel or face frame (blocked out) cabinet applications
- Works with CLIP top BLUMOTION, CLIP top, CLIP, COMPACT BLUMOTION and COMPACT
- Can be bored into the side panel or used with an adapter plate
- Easy depth adjustment for proper door gap setting
- Works for both overlay and inset applications
- Quick and easy installation
- Increased design options
- Requires minimal force to open and close


## General Specifications

## Hinges

## Tool-Free Door Gap Adjustment

The adjustment feature ( $+\mathbf{4} /-\mathbf{1} \mathrm{mm}$ ) has been incorporated into the TIP-ON unit so even when TIP-ON is inserted into the cabinet, it has an integrated gap adjustment. To adjust gap, turn the ejector pin. The click-stop positions allow you to easily find the right setting.


NOTE: Minimum gap of $\mathbf{3} \mathrm{mm}$ with a screw-on catch plate and 2.5 mm with a self-adhesive catch plate


## 96THO

## TIP-ON set for standard door



## Hinges

TIP-ON in-line adapter plate for standard door


TIP-ON in-line adapter plate for large door


## COMPACT BLUMOTION and COMPACT hinges A complete face frame program

Blum's COMPACT hinges program has proven itself as the high quality solution for face frame cabinets for over 30 years and continue to provide the quality of motion you have come to expect from Blum hardware.

COMPACT BLUMOTION hinges have the soft closing mechanism integrated directly in the hinge cup. They are available for most overlay face frame applications or door styles.



Deactivation option
The BLUMOTION function can be easily deactivated on one of the hinges, allowing small or light doors to close with the same high quality of motion.


Interchangeability
COMPACT BLUMOTION hinges are interchangeable with current COMPACT hinges so there is no need to change existing setups or workflows.


## Overload safety feature

This feature protects the hinge from damage if the door is slammed and maintains the BLUMOTION soft closing for the life of the hinge.


## COMPACT BLUMOTION 38N hinges for partial overlay

Partial overlay hinges with a $105^{\circ}$ opening angle and $7 / 16$ " cup depth

## COMPACT BLUMOTION 39C/38C hinges for full overlay

39 C : Full overlay hinges with a $110^{\circ}$ opening angle and $1 / 2^{\prime \prime}$ cup depth
38 C: Full overlay hinges with a $107^{\circ}$ opening angle and $7 / 16^{\prime \prime}$ cup depth


## COMPACT 39C/38C hinges for full overlay

39C: Full overlay hinges with a $110^{\circ}$ opening angle and $1 / 2^{\prime \prime}$ cup depth
38C: Full overlay hinges with a $107^{\circ}$ opening angle and $7 / 16^{\prime \prime}$ cup depth

[^0]
## Conditions for Tests

Blum, Inc. does a great deal of testing to ensure that the quality of our hardware is consistent with the usual high standards that our customers have come to expect from Blum. For this reason we have rigorous testing procedures which are carried out from the development stage through production. Blum's internal testing standards are based on practical applications of our products and are more stringent than what is required by ANSI/BHMA.

NOTE: All Blum hinges meet or exceed ANSI/BHMA A156.9-2001 grade 2 requirements. All concealed hinges are designed for indoor use.

## Cycle test

| Specifications | ```_ Door size - 23-5/8" height, 23-5/8" width, 3/4" thickness - Door weight -14.3 lb for cycle tests - Door weight - 18.5 lb for load and over push tests - Boring distance - 3 mm``` |
| :---: | :---: |
| Distance between hinges | - 16-15/16" |
| Hinge and mounting plate attachment | - Hinges are mounted to test blocks and attached to test door and stand with clamps <br> - Test blocks for door: Particle board <br> - Test blocks for mounting plate: Particle board |

## Cycle test

Over push test


## Without load

- COMPACT hinges - Increasing forces up to 11 lb applied for a total of forty times for five seconds each




## Hinges



## Press-in

Pre-attached $\varnothing 8$ dowels installed with Blum knock-in tool or MINIPRESS with COMPACT insertion ram



## Minimum reveal

A minimum reveal per door is required to keep the door from binding and varies depending on door thickness.

See minimum reveal table for each hinge.


## Hinge cup centerpoint

Hinge cup centerpoint and MINIPRESS/ MINIDRILL setback position is 20.5 (13/16") for COMPACT BLUMOTION hinges


NOTE: Maximum door thickness $3 / 4^{\prime \prime}$

## Hinges per door

This chart can serve as a guide for determining the number of hinges per door. Note that door weight can also determine the number of hinges required.


[^1]
## Adjustments

## 40\%m

## Three-dimensional adjustment

Side adjustment

Rotate the front cam screw to increase or decrease door overlay ( $\pm 1 / 16$ ")


Height adjustment

Loosen installation screws to adjust door position ( $\pm 1 / 8$ "), then retighten


Depth adjustment

Rotate the rear cam screw to adjust door gap (+ 3/32", - 1/32")


## BLUMOTION Deactivation

## Deactivation switch on the hinge cup

For small or light doors, the BLUMOTION can be deactivated on one of the hinges. COMPACT BLUMOTION comes in the activated position, marked with a "I". The deactivated position is marked with a "0".


Door must be closed once for the deactivation to be complete.
To reactivate, move switch back to the original position "I".


## COMPACT BLUMOTION 38N for Partial Overlay

## Hinges

## Minimum Reveal




NOTE: Maximum door thickness 3/4"


NOTE: COMPACT BLUMOTION comes in the activated position, marked with a "l" - the deactivated position is marked with a "0"


Wraparound and edge mount hinges


*Available as edge mount hinge

| Installation screw |  |
| :--- | :--- |
| Truss head screw | 834TH |


| Accessories |  |
| :--- | ---: |
| Angle restriction clip | $38 C 315 B 3.1$ |
| Hinge cup spacer | $38 C 355 B 9$ |
| *Blank cover cap | $38 N 3508 B$ |

[^2]
## Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- $1 / 2$ " cup depth
- Less minimum reveal

Minimum Reveal



NOTE: Maximum door thickness 3/4"


NOTE: COMPACT BLUMOTION comes in the activated position, marked with an "l" - the deactivated position is marked with a "0"


Wraparound hinges

|  |  |  |  |
| :--- | ---: | ---: | ---: |
|  |  |  |  |


| Installation screw |  |
| :--- | :--- |
| Truss head screw | 834TH |


| Accessories |  |
| :--- | ---: |
| Angle restriction clip | 38 C315B3.1 |
| Hinge cup spacer | 38 C355B9 |
| *Blank cover cap | $38 C 3508$ |

*See page 84 for additional cover cap options


## Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece wraparound hinge
- 7/16" cup depth
- Ideal for profiled doors


## Hinges

## Minimum Reveal




NOTE: Maximum door thickness 3/4"

## Adjustments



NOTE: COMPACT BLUMOTION comes in the activated position, marked with an "I" - the deactivated position is marked with a "0"


## Wraparound hinges



## Accessories

| Angle restriction clip | 38C315B3.1 |
| :--- | ---: |
| Hinge cup spacer | $38 C 355 B 9$ |
| *Blank cover cap | $38 C 3508$ |

*See page 84 for additional cover cap options

## Features

- BLUMOTION integrated into the hinge cup
- Deactivation switch for small/light doors
- Overload safety feature
- One-piece face mount hinge
- 7/16" cup depth
- Ideal for large overlays or refacing of cabinets

Minimum Reveal



NOTE: Maximum door thickness 3/4"



Face mount hinges


## Installation screw

Flat head wood screw
606 N or 606P

## Accessories

| Angle restriction clip | 38C315B3.1 |
| :--- | ---: |
| Hinge cup spacer | 38 C355B9 |

COMPACT BLUMOTION
Hinge Accessories

Hinge arm cover caps

- Steel, nickel-plated cap
- Available blank or embossed (Blum logo)
- Also available with printed custom logo (minimum order quantity applies)

39C/38C Blum logo embossed cover cap
38N blank cover cap


|  | Part no. |  |
| :---: | :---: | :---: |
|  | 39C/38C blank cover cap | 38C3508 |
|  | 39C/38C Blum logo embossed cover cap | 38C3508.BP |
| 38N Blum logo | 38 N blank cover cap | 38N3508B |
| embossed cover cap | 38N Blum logo embossed cover cap | 38N3508BBP |

## Angle restriction clip

- Restricts opening angle of the COMPACT BLUMOTION to $86^{\circ}$
- Angle restriction clip must be inserted before the hinge has been attached to the face frame
- Gray nylon


Part no.
Angle restriction clip 38C315B3.1

## Hinge cup spacer

- $1 / 16$ " spacer for use under the hinge cup for thin or profile doors
- Non-stackable
- Gray nylon



## Screw-on hinge attachment

Use \#6 wood screws

## Press-in hinge attachment

Pre-attached $\emptyset 8$ dowels installed with Blum knock-in tool or MINIPRESS with COMPACT insertion ram.


## Mounting plate attachment

One-piece assembly
COMPACT 38N
wrap or edge

Hinge cup centerpoint
Cup centerpoint and MINIPRESS/MINIDRILL setback position is 20.5 (13/16") for COMPACT hinges.

NOTE: Maximum door thickness $3 / 4$ "




## Features

- $105^{\circ}$ opening angle
- One piece assembly
- Wraparound or edge mount
- 7/16" cup depth
- $\pm 1 / 8$ " height adjustment
- $\pm 1 / 16$ " side adjustment
- +3/32", -1/32" cam depth adjustment
- Steel, nickel-plated
- Can be used with BLUMOTION 971A9700


## Hinges

## Minimum Reveal




NOTE: Maximum door thickness 3/4"


Calculating door protrusion

| Door overlay | Door protrusion |
| :---: | :---: |
| $3 / 8^{\prime \prime}$ | $1 / 4^{\prime \prime}$ |
| $1 / 2^{\prime \prime}$ | $1 / 8^{\prime \prime}$ |
| $5 / 8^{\prime \prime}$ | 0 |
| $3 / 4^{\prime \prime}$ | 0 |



## Wraparound hinges



## Installation screw



## Features

- $110^{\circ}$ opening angle
- One piece assembly
- Wraparound mount
- $1 / 2$ " cup depth
- $\pm 1 / 8$ " height adjustment
- $\pm 1 / 16$ " side adjustment
- +3/32", $-1 / 32$ " cam depth adjustment
- Steel, nickel-plated
- Can be used with BLUMOTION 971A9700


## Minimum Reveal




NOTE: Maximum door thickness 3/4"



## Wraparound hinges



| Installation screw |  |
| :--- | :--- |
| Truss head installation screw | 834TH |



## Features

- $107^{\circ}$ opening angle
- One piece assembly
- Wraparound mount
- 7/16" cup depth
- $\pm 1 / 8$ " height adjustment
- $\pm 1 / 16$ " side adjustment
- +3/32", -1/32" cam depth adjustment
- Steel, nickel-plated
- Can be used with BLUMOTION 971A9700


## Hinges

## Minimum Reveal




NOTE: Maximum door thickness 3/4"



## Wraparound hinges



## Installation screw

Truss head installation screw


## Features

- $110^{\circ}$ opening angle
- Two piece assembly
- Edge or face mount
- $1 / 2$ " cup depth
- $\pm 9 / 64$ " height adjustment
-     - $1 / 8$ " side adjustment only
- Zinc die-cast hinge and mounting plates
- Can be used with BLUMOTION 971A9700

Minimum Reveal


## Boring pattern



Mounting


## Attachment options



| Attachment | Screw-on | $\boxed{47} 7$ Press-in |
| ---: | ---: | ---: |
| 33.3600 | 33.3630 |  |

## Installation screw

Wood screw

COMPACT 33 Mounting Plates

Hinges folvin

Edge mount specifications


Edge mount mounting plates


- Zinc die-cast, nickel-plated
- Attaches with \#6 x 5/8" wood screws (606N or 606P)
- Overlays from $1 / 4$ " to $1-5 / 8$ "

NOTE: An additional screw is required on mounting plates with $1-3 / 8$ " to $1-5 / 8^{\prime \prime}$ overlays to insure stability. Install after height adjustments have been made.

| Overlay | Hinge arm protrusion (S) | Door protrusion (P) | Mounting plate |
| :---: | :---: | :---: | :---: |
| 1/4" | 1-1/8" | 1/2" | 130.1100.24 |
| 1/2" | 7/8" | 1/4" | 130.1100.23 |
| 5/8" | 3/4" | 1/8" | 130.1100.26 |
| $3 / 4$ " | 5/8" | 0 | 130.1100.22 |
| $1{ }^{\prime \prime}$ | 3/8" | 0 | 130.1110.02 |
| 1-1/8" | 1/4" | 0 | 130.1120.02 |
| 1-1/4" | 3/16" | 0 | 130.1130.02 |
| *1-3/8" | 3/16" | 0 | 130.1140.02 |
| *1-1/2" | 3/16" | 0 | 130.1150.02 |
| *1-5/8" | 3/16" | 0 | 130.1160 |

Face mount mounting plate

> Zinc die-cast, nickel-plated
> Attaches with \#6 x $5 / 8$ " wood screws ( 606 N or 606 P )
> Overlays $1-3 / 8$ " or greater

| Mounting plate | Part no. |
| :--- | ---: | ---: |
| Face mount | 133.0240 |

## BLUMOTION 971A for COMPACT hinges

## BLUMOTION 971A poly-bag set

|  | Can be used for all COMPACT hinges <br> Set includes: <br> - BLUMOTION mechanism (971A9700) <br> - Spacer (971A9709) <br> - \#8 x 1-1/4" type 17 wood screw <br> - \#8 x 2" type 17 wood screw | Part no. |
| :---: | :---: | :---: |
|  | Poly-bag set | 971A9700.22 |



## Specifications

## Mounting

BLUMOTION for doors mounts anywhere on the hinge-side stile of the cabinet using a $1-1 / 4$ " screw or 2 " screw when using spacer.


## Adjustment

Use a Phillips or POZI screwdriver to adjust the contact point in or out ( $+5 /-5 \mathrm{~mm}$ ). Adjust out for larger, heavier doors or in for smaller, lighter doors.


## BLUMOTION per door

For optimum BLUMOTION effect, one BLUMOTION 971A should be installed for most applications.
Tall or heavy doors may require an additional BLUMOTION 971A Trial application recommended.


## Hinges

## COMPACT Cover Caps

## COMPACT 38 N cover cap

$=$| $=$ Use with COMPACT 38N hinges |
| :--- |
| $=$ |
| $=$ |
| Clip on attachment/removal |
| Available blank or with printed custom logo |
| (minimums apply) |
| Steel, nickel-plated |

38N cover cap

## COMPACT 39C/38C cover cap

|  | - Use with COMPACT 39C/38C hinges only <br> - Clip on attachment/removal <br> - Available blank/embossed blum logo or with printed custom logo (minimums apply) <br> - Steel, nickel-plated |  |
| :---: | :---: | :---: |
|  |  | Part no. |
|  | Blank | 38 C 3508 |
|  | Embossed Blum logo | 38C3508.BP |

## Distance spacer



## Dowel Cross-Reference Chart

Blum press-in and EXPANDO dowels simplify installation
Use the charts below to find the proper hinge-to-dowel combination


## Machines

## 40\%

MINIPRESS P - Deluxe boring and insertion machine


MINIDRILL P - Standard boring machine
Front adjustable boring distance

$=$| Ruler stops (qty 4) |
| :--- |
| $=$ |
| $=$ |
| Tool kit included |
| - Dust collection attachment |
| Optional laser center line, digital counter and hold down clamps sets |
| $=$ |
| Accepts new 8 or 9 spindle heads |

Part no.
Single phase -220 V power

## Machine Accessories

## Hinges

## fotrm



NOTE: Requires 5 each left hand and 4 each right hand drill bits. Recommended drill bit size for quick disconnect chucks: overall length is 57 mm and shank is $\mathbf{1 0} \mathbf{~ m m}$ in diameter and $\mathbf{2 7} \mathbf{~ m m}$ in length.


8 spindle head

|  | - 8 spindle head for use with MINIPRESS/MINIDRILL <br> - Bores eight holes spaced 32 mm apart, perpendicular to the fence <br> - Quick-disconnect chucks <br> - Once aligned, does not require additional adjustment <br> - Bores all METABOX and TANDEMBOX front fixing brackets/galleries <br> - Bores cabinet side panels for all Blum runner systems <br> - Requires retrofit set for use with machines produced in 2009 or prior <br> Includes: <br> - $\varnothing 3 \mathrm{~mm}$ allen wrench <br> - Distance spacer <br> - Drive pin <br> - Air hose |
| :---: | :---: |
| ires 4 each left hand and 4 each right <br> . Recommended drill bit size for quick | Part no. |
|  | 8 spindle head MZK.880S |
| diameter and $\mathbf{2 7} \mathbf{7 m}$ in length. | Chuck cover cap M30.1329 |



## Hinges



## Machine Accessories




## Digital counter set

- For MINIPRESS P

Part no.
MZ $=.2110$

## Breakaway clutch

| For use with MINIPRESS and |
| :--- |
| MINIDRILL |
| Part no. |
| Breakaway clutch |

## Machine Accessories

## Hinges

## Euro hinge insertion ram

Can be used for inserting
CLIP top BLUMOTION, CLIP
top and CLIP press-in hinges
Not for use with wide angled
or specialty hinges
NOTE: Can be used with CLIP top BLUMOTION $95^{\circ}$, CLIP top $95^{\circ}$
and CLIP $100^{\circ}$ by adjusting the ball plungers

|  | Part no. |
| :--- | ---: |
| \#10 insertion ram | MZM.0010.01 |

## Euro hinge insertion ram

- Can be used for inserting Blum wide angle press-in hinges


|  | P18 insertion ram no. |
| :--- | ---: |

## Euro hinge insertion ram

- Can be used for inserting most Blum press-in Euro hinges


NOTE: Not for use with $170^{\circ}, 155^{\circ}$ and $125^{\circ}$ wide angle hinges

|  | Part no. |
| ---: | ---: |
| \#40 insertion ram | MZM.0040 |

## COMPACT hinge insertion ram

- Can be used for inserting all Blum COMPACT press-in hinges


Part no.
MZM. 0047

## Mounting plate insertion Ram

- MINIPRESS insertion ram for press-in, in-line mounting plate 177 H 3100


Part no.
\#53 insertion ram MZM. 0053

## Machine drill bits

| (1) |
| :--- |

## Twist drill bits - high speed steel



Part no.
Knock-in tool
ZME. 0710

## ECODRILL



ECOJIG


Universal individual template


## Mounting plate template



- For pre-boring TIP-ON for doors wing and in-line adapters
- Can also be used to bore for wing ( $\mathbf{3 7} \mathrm{mm}$ ) and in-line ( 20 mm ) mounting plates
- Additional hole location added ( 37 mm ) for in-line adapter for standard doors
- Simple location of adapter and mounting plate screw positions
- Pilot bore $\varnothing 2.5 \mathrm{~mm}$ holes for wood screws

Part no.
Mounting plate template
65.5300*

## Assembly Aids

## Hinges



## PLATEMATE



| - Boring template for all Blum face frame adapter plates |
| :--- |
| - Clamps to the frame with cam lever |
| - Adjustment knob accommodates frame thickness of $5 / 8$ " to 1 " |
| - Spacer screws permit quick use without measuring |
| - Includes 2.5 mm pilot bit and drill bit extension |
|  |
| PLATEMATE |
| Part no. |

## Dowelling fixture

| - Tool designed for attaching and removing dowels from hinges |
| :--- | :--- |
| - Mounts directly to work surface |

## INSERTA boring template



## BLUMOTION and TIP-ON for doors boring template



- For pre-boring BLUMOTION and TIP-ON units
- $\varnothing 10 \mathrm{~mm}$ drill bushing for edge boring
- Bores left and right side of cabinet
- Includes $\varnothing 10 \mathrm{~mm}$ stop collar


## Deep thread wood screw

- For attaching hinges and mounting plates


## 1200000 a

|  |  |  |
| :--- | ---: | ---: |
|  |  |  |
|  |  | Part no. |
| \# $\times 1 / 2$ ", \#2 Phillips | 6062 N |  |
| \#6 5/8", \#2 Phillips | 606 N |  |
| \#6 x 5/8", \#2 POZI | 606 P |  |
| \#6 x 3/4", \#2 Phillips | 6064 N |  |
| \#7 x 5/8", \#2 Phillips | 707 N |  |
| \#7 x 3/4", \#2 Phillips | 7074 N |  |

## Deep thread system screw

| - Pilot bore Ø5 (3/16") hole |  |
| :---: | :---: |
|  |  |
|  | Part no. |
| \#7 x 10 mm , \#2 POZI | 661.1000.HG |
| \#7 x 11.5 mm , \#2 POZI | 661.1150.HG |
| \#7 x 13 mm , \#2 POZI | 661.1300.HG |
| \#7 x 14.5 mm , \#2 POZI | 661.1450.HG |
| \#7 x 20 mm, \#2 POZI | 661.2000.HG |
| \#7 x 25 mm, \#2 POZI | 661.2500.HG |

## Pan head system screw

- Pilot bore Ø5 (3/16") hole


Part no.
\#7 x $14.5 \mathrm{~mm}, \# 2$ POZI 668.1450.EH

## Truss head screw

- For attaching COMPACT hinges to
face frame
- Type 17
fratums

Part no.
\#8 x 3/4", \#2 Phillips 834TH

| Twin application screw |  |
| :--- | ---: |
| - Pre-bored $\varnothing 5(3 / 16 ")$ hole |  |
|  |  |

## POZI DRIVER and bits



A POZI screwdriver (different from Phillips) is the most crucial tool you can use to assure that full torque is applied to all Blum mounting screws. POZI screws can be identified by the distinctive "tick" marks located in the center of the screw head recess.


Part no.

| \#2 POZI DRIVER | POZI DRIVER |
| :--- | ---: |
| 1/4" Magnetic bit holder | BIT HOLDER |
| \#2 x 1" POZI bit insert | POZI BIT \#2X1 |
| \#2 x 2" POZI bit insert | POZI BIT \#2X2 |




## $>\quad$ Connect With Us on Social Media

Be sure to connect with us on social media for additional resources for information regarding tips on installation, maximizing storage space, new products and other news and events going on inside Blum.

Find us by searching "Blum Inc" in the search bar.
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Part no.

| 130.1100 .22 |
| :--- |
| 130.1100 .23 |
| 130.1100 .24 |
| 130.1100 .26 |
| 130.1110 .02 |
| 130.1120 .02 |
| 130.1130 .02 |
| 130.1140 .02 |
| 130.1150 .02 |
| 130.1160 |
| 133.0240 |
| 171 A5010 |
| 171 A5040 |
| 171 A5070 |
| 171 A5500 |
| $173 H 7100$ |
| $173 H 7130$ |
| $173 H 9100$ |
| $173 H 9100.04$ |
| $173 H 9100.08$ |
| $173 H 9100.12$ |
| $173 H 9100.16$ |
| $173 H 9130$ |
| $173 H 9130.06$ |
| $173 H 9130.10$ |
| $173 H 9130.14$ |
| $173 H 9130.18$ |
| $173 L 6100$ |
| $173 L 6130$ |
| 173 L.8100 |
| $173 L 8130$ |
| $174-0100.01$ |

174E6100.01

174E610Z
174H7100E
174H7100I
174H710ZE
174H7130E
174H71301
175 H 3100
175H5030.21
175 H 6000
175 H 6030
175H6040
175H6060
175 H 6600
175 H 7100
175 H 7130
175 H 7190
175 H 9100
175H9130
175 H 9160
59
Page no

| 175H9190.22 | 59 |
| :---: | :---: |
| 175L6030.21 | 60 |
| 175L6600.22 | 60 |
| 175L6600.24 | 60 |
| 175L6630.22 | 60 |
| 175L6660.22 | 60 |
| 175L8100 | 57 |
| 175L8130 | 57 |
| 175L8190 | 57 |
| 177H3100 | 59 |
| 177H3100E | 59 |
| 177H3130E | 59 |
| 181.6130 | 55 |
| 33.3600 | 89 |
| 33.3630 | 89 |
| 34.3582.01 | 92 |
| 36.3515 | 84, 92 |
| 38B355BF22 | 83 |
| 38B358BF22 | 83 |
| 38C315B3.1 | 84 |
| 38C3508 | 84, 92 |
| 38C3508.BP | 84, 92 |
| 38C355B. 20 | 82 |
| 38C355B9 | 84 |
| 38C355C. 20 | 88 |
| 38C358B. 20 | 82 |
| 38C358C. 20 | 88 |
| 38C358C. 21 | 88 |
| 38C358C. 22 | 88 |
| 38C358C. 24 | 88 |
| 38C358C. 25 | 88 |
| 38N3508B | 84 |
| 38N3508BBP | 84 |
| 38N355B. 06 | 80 |
| 38N355B. 08 | 80 |
| 38N355B. 10 | 80 |
| 38N355B. 12 | 80 |
| 38N355BE08 | 80 |
| 38N355C. 06 | 86 |
| 38N355C. 08 | 86 |
| 38N355C. 10 | 86 |
| 38N355C. 12 | 86 |
| 38N355CE08 | 86 |
| 38N358B. 05 | 80 |
| 38N358B. 06 | 80 |
| 38N358B. 08 | 80 |
| 38N358B. 10 | 80 |
| 38N358B. 12 | 80 |
| 38N358BE08 | 80 |
| 38N358C. 06 | 86 |
| 38N358C. 08 | 86 |
| 38N358C. 10 | 86 |


| 38N358C. 12 | 86 |
| :---: | :---: |
| 38N358CE08 | 86 |
| 39C355B. 16 | 81 |
| 39C355B. 20 | 81 |
| 39C355B. 21 | 81 |
| 39C355B. 22 | 81 |
| 39C355B. 24 | 81 |
| 39C355B. 25 | 81 |
| 39C355C. 16 | 87 |
| 39C355C. 20 | 87 |
| 39C355C. 21 | 87 |
| 39C355C.22 | 87 |
| 39C355C. 24 | 87 |
| 39C358B. 16 | 81 |
| 39C358B. 20 | 81 |
| 39C358B. 21 | 81 |
| 39C358B. 22 | 81 |
| 39C358B. 24 | 81 |
| 39C358B. 25 | 81 |
| 39C358C. 16 | 87 |
| 39C358C. 20 | 87 |
| 39C358C. 21 | 87 |
| 39C358C. 22 | 87 |
| 39C358C. 24 | 87 |
| 39C358C. 25 | 87 |
| 58.0890.1198 | 89 |
| 602.1200 | 92 |
| 6062N | 99 |
| 6064 N | 99 |
| 606 N | 99 |
| 606P | 99 |
| 608.1200 | 92 |
| 612.2010 | 99 |
| 612.2020 | 99 |
| 612.2420 | 99 |
| 65.059A | 98 |
| 65.1051.02 | 97 |
| 65.5010 | 98 |
| 65.5030.01 | 98 |
| 65.5070 | 97 |
| 65.5300* | 97 |
| 65.7500.03 | 98 |
| 65.7590 | 98 |
| 65.7510.03 | 98 |
| 661.1000.HG | 99 |
| 661.1150.HG | 99 |
| 661.1300.HG | 99 |
| 661.1450.HG | 99 |
| 661.2000.HG | 99 |
| 661.2500.HG | 99 |
| 668.1450.EH | 99 |
| 69.3600 | 98 |


| 70.0532 | 92 |
| :---: | :---: |
| 70.1503 | 55 |
| 70.1503.BP | 55 |
| 70.1553 | 55 |
| 70.1663 | 55 |
| 70.6103 | 56 |
| 70.7503 | 55, 92 |
| 7074N | 99 |
| 707N | 99 |
| 70M2550.TL | 42 |
| 70M2580.TL | 42 |
| 70M2650.TL | 42 |
| 70M2750.TL | 42 |
| 70M2780.TL | 42 |
| 70T1504 | 55 |
| $70 T 3504$ | 55 |
| 70T3507.21 | 55 |
| 7073550.TL | 21 |
| 7073553 | 56 |
| 70T3580.TL | 21 |
| 7073590.TL | 21 |
| 70T3650.TL | 21 |
| 70T3690.TL | 21 |
| 70T3750.TL | 21 |
| 70T5582.01 | 92 |
| 70T6540BTL | 26 |
| 7076550.TL | 26 |
| 70T6650.TL | 26 |
| 70T7503N | 56 |
| 70T7503N09 | 56 |
| 70T9550.TL | 25 |
| 70T9580.TL | 25 |
| 70T9650.TL | 25 |
| 70T9750.TL | 25 |
| 71B3550 | 13 |
| 71B3580 | 13 |
| 71B358E | 13 |
| 71B3590 | 13 |
| 7183650 | 13 |
| 71B3680 | 13 |
| 71B3690 | 13 |
| 7183750 | 13 |
| 71B3780 | 13 |
| 71B3790 | 13 |
| 71B950A | 19 |
| 71B9550 | 15 |
| 71B9580 | 15 |
| 7189590 | 15, 44 |
| 71B9650 | 15 |
| 71B9680 | 15 |
| 7189690 | 15, 44 |
| 71B9750 | 15 |

Part no.

| 7189780 | 15 |
| :---: | :---: |
| 71B9790 | 15, 44 |
| 71M2550 | 42 |
| 71M2580 | 42 |
| 71M2590B | 42 |
| 71M2650 | 42 |
| 71M2680 | 42 |
| 71M2690B | 42 |
| 71M2750 | 42 |
| 71M2780 | 42 |
| 71M2790B | 42 |
| 71 T0550 | 38 |
| 71T0650 | 38 |
| 71T0750 | 38 |
| 7113550 | 21 |
| 71T3580 | 21 |
| 71T358E | 21 |
| 71T3590 | 21 |
| 71T3650 | 21 |
| 71T3680 | 21 |
| 71T3690 | 21 |
| 7173750 | 21 |
| 7173780 | 21 |
| 71T3790 | 21 |
| 7115550 | 23 |
| 71T5580 | 23 |
| 71T558E | 23 |
| 71T5590B | 23 |
| 71T5650 | 23 |
| 71T5680 | 23 |
| 71T5690B | 23 |
| 71T6540B | 26 |
| 71T6550 | 26 |
| 71T6580 | 26 |
| 71T6640B | 26 |
| 71T6650 | 26 |
| 71T6680 | 26 |
| 71T7500D | 31 |
| 71T7500N | 28 |
| 7177530D | 31 |
| 71T7530N | 28 |
| 71T7540N01 | 28 |
| 7177600 N | 30 |
| 71T7640N01 | 30 |
| 71T9550 | 25 |
| 71T9580 | 25 |
| 71T9590B | 25, 44 |
| 71T9650 | 25 |
| 7119680 | 25 |
| 71T9690B | 25, 44 |
| 71T9750 | 25 |
| 7119780 | 25 |


| 71T9790B | 25, 44 |
| :---: | :---: |
| 72T3550.TL | 22 |
| 72T3580.TL | 22 |
| 72T3590.TL | 22 |
| 72T550A.TL | 36 |
| 73B3550 | 14 |
| 73B3580 | 14 |
| 73B358E | 14 |
| 73B3590 | 14 |
| 73T3550 | 22 |
| 73T3580 | 22 |
| 73T358E | 22 |
| 73T3590 | 22 |
| 73T550A | 36 |
| 73T550AB | 35 |
| 73T5550 | 24 |
| 73T5580 | 24 |
| 73T558E | 24 |
| 73T5590B | 24 |
| 74.1103 | 56 |
| 75M1580 | 41 |
| 75 T 1550 | 20 |
| $75 T 1580$ | 20 |
| 75T1590B | 20 |
| $75 T 4100$ | 39 |
| 75 T 4200 | 39 |
| $75 T 4300$ | 39 |
| 79A5490BT | 44 |
| 79A5491BT | 44 |
| 79A5493BT | 44 |
| 79A9494BT | 44 |
| 79A9496BT | 44 |
| 79A9498BT | 44 |
| 79A9595BT | 44 |
| 79A9596BT | 44 |
| 79A9698BT | 44 |
| 79B3490 | 44 |
| 79B3491 | 44 |
| 7983493 | 44 |
| 79B3598 | 16, 44 |
| 79B9494 | 44 |
| 7989496 | 44 |
| 79B9498 | 44 |
| 79B9550 | 17 |
| $79 \mathrm{B9580}$ | 17 |
| 79B9590 | 17 |
| 79B9595 | 47 |
| 7989596 | 44 |
| 79B9698 | 44 |
| 79B9980 | 18 |
| 7975550 | 37 |
| 79T5580 | 37 |


| M30.1329 | 94 |
| :---: | :---: |
| M31.1000 | 97 |
| M31.ZB08.02 | 97 |
| M31.ZB35.02 | 97 |
| M52.1056*US | 93 |
| M53.0720.US | 95 |
| M53.1004*US | 93 |
| M53.1053*50 | 93 |
| M53.1053*US | 93 |
| MZA. 1000 | 95 |
| MZA. 5200 | 95 |
| MZA. 5300 | 95 |
| MZE. 2110 | 95 |
| MZK.190S | 94 |
| MZK. 2009 | 95 |
| MZK.880S | 94 |
| MZL.1250.US | 95 |
| MZM.0010.01 | 96 |
| MZM. 0018 | 96 |
| MZM. 0040 | 96 |
| MZM. 0047 | 96 |
| MZM. 0053 | 96 |
| MZR.5300.US | 95 |
| MZS. 1000 | 95 |
| MZS. 2000 | 95 |
| MZS. 3000 | 95 |
| MZV. 2100 | 95 |
| MZW. 1300 | 97 |
| POZI BIT \#2x1 | 99 |
| POZI BIT \#2x2 | 99 |
| POZI DRIVER | 99 |
| VPB-5 | 96 |
| ZME. 0710 | 97 |





Blum, Inc. is a leading manufacturer of functional hardware for the kitchen cabinet and commercial casework industries specializing in lift systems, concealed hinges and drawer runner systems. Virtually all of the hardware needed to assemble and make cabinets functional is available within the wide range of quality Blum products. Blum supports the U.S. market with a network of more than 150 dependable distributors, $40+$ knowledgeable Blum sales representatives and an experienced customer service department.

## Commitment to manufacturing in the U.S.

Blum manufactures many of its products in our 450,000 sq ft manufacturing, logistics and warehouse facility located in Stanley, North Carolina. Manufacturing closer to the customer allows Blum to react quickly to changing customer needs including unexpected surges in demand. Customer pickups and deliveries can be timed to better match their production schedules. Blum is committed to manufacturing in the U.S. for the U.S. market.


Product development at Blum considers all of the various customers who will come in contact with our products. With this "Global Customer Benefits" philosophy we strive to create advantages for all users.


ISO 9001
Certified Quality
System System

Blum, Inc.
7733 Old Plank Rd.
Stanley, NC 28164
800-438-6788
blum.com


[^0]:    COMPACT 33 hinges for partial and full overlay
    Economical two-piece assembly hinges with a $110^{\circ}$ opening angle and 1/2" cup depth

[^1]:    NOTE: The distance between the top and bottom hinges must be greater than the width of the door

[^2]:    *See page 84 for additional cover cap options

