Tiemos – currently the best possible movement solution for furniture doors.
With Tiomos a vision has become reality.

Hinges were already used in ancient times. With Tiomos, GRASS is now opening a new chapter that will inspire the furniture makers of the future. The development of Tiomos has benefited from several decades of know-how and experience. Years of research have been dedicated to reconceptualising and developing every detail and function from the bottom up. The result is a very elegant movement system which already meets all technical and functional requirements of the future.
Soft-close inside.
The whole damper technology is concealed inside the hinge arm.

Three levels for individual comfort.
In addition to its many special functions, timeless design and unique character, Tiomos offers stepwise adjustment of the damping level. The action of the Soft-close damper can be easily adjusted to individual requirements – a turn of the lever is all that is needed.

- For stronger damping action, turn the adjustment lever by 90° to the right.
- Tiomos hinges leave the factory with the adjustment lever in the horizontal position.
- For a gentler closing action, the adjustment lever of the Soft-close damper is turned to the left by 90°.
You can tell the quality of a hinge system by how long a hinge will function without developing a fault and how much it will drop under load. Tiomos has achieved exceptionally positive values in tests for durability and for dropping under load.

**TIOMOS HINGE SYSTEM**

In most cases a masterpiece is the sum total of small strokes of genius. Tiomos is the best example to prove the point.

One of the outstanding characteristics of the new hinge system is the Soft-Close damper which features stepwise adjustment and is fully concealed within the hinge arm. The complex inner workings of this high-tech hinge are hidden from view, much like a Swiss clock movement, and cannot fail to impress with their unique damping characteristics. The closing process in each movement phase is smooth and completely without transition, starting from an opening angle of 20°. Irrespective of the size and weight of the door.

One range to cover all applications.

Consistent design solutions are only possible when all kinds of door applications can be covered by a single hinge system. The systematically extended Tiomos range provides perfect movement solutions for glass, mirror or aluminium frame doors through to doors opening at variable wide angles and offers the perfect movement for nearly all applications. With and without damping function.

Perfect alignment with a twist of the hand.

For fine adjustment, the Tiomos hinge system offers three movement dimensions: depth adjustment by +3 to -2 millimetres; it is based on a worm gear principle and is continuous and self-locking. The height can be adjusted by +/-2.5 millimetres. The overlay adjustment is +/-2 millimetres with limit stop.

Another stroke of genius is the new kinematics inside Tiomos.

Thanks to physically optimised lever movements, furniture doors are extremely easy to open. In addition, this unique kinematic mechanism makes unprecedented alignment possible with minimum gaps. These unique characteristics of the new hinge system are of special benefit to furniture designers because the reduction in gaps and reveals opens up new possibilities in furniture design.
Our versatile hinge systems offer everything that moves doors: finely tuned movement systems with style, top quality workmanship, functionality and operating comfort.

NEW: Tiomos – currently the best possible movement solution for furniture doors.

The briefing was: to create an innovative product with special functions, variable operating comfort, timeless design and its own unique character. And the result is something to be proud of. Tiomos is the perfect movement system for current trends in furniture design.
TIOMOS HINGE SYSTEM

The latest hinge generation made by GRASS already meets all technical and functional requirements of the future.

Three levels for individual comfort.
In addition to its many special functions, time-less design and unique character, Tiomos offers stepwise adjustment of the damping level. The action of the Soft-close damper can be easily adjusted to individual requirements – a turn of the lever is all that is needed.
TIOMOS HINGE SYSTEMS

Tiomos – currently the best possible movement solution for furniture doors. With and without integrated damper.

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<th>Product designation</th>
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Tiomos – currently the best possible movement solution for furniture doors. With and without integrated damper.

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**Tiomos mounting plates**

**Tipmatic**

**Accessories**
- Hinge arm cover caps
- Opening angle reduction clips

**Technical information**
TIOMOS 110
110° hinge (door thicknesses up to 24 mm)

- 110° opening angle
- Optimum reveals for door thicknesses up to 24 mm
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

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ACCESSORIES

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Packaging units are not covered in this catalogue; please enquire with your supplier.
### INSTALLATION INFORMATION

All dimensions in millimetres

#### HINGE SYSTEMS

**TOMOS 110**

**110° HINGE**

---

### MINIMUM GAP

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### NOTES

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

For door thicknesses of 24 mm and above, a trial fitting is recommended.

---

### DRILLING PATTERNS 45/9.5

- **Screw fixing**
- **Press fitting**
- **Combination drilling pattern for Impresso**

---

### CUP DIMENSIONS

- **Minimum gap**
- **Minimum reveal**
- **Minimum reveal (F) at 85°**
- **85° opening angle reduction clip**

---

### The Catalogue

**GRASS**

05-2011

All dimensions in millimetres. Subject to changes
### ORDER INFORMATION FOR DRILLING PATTERN 48/9

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<th>Cranking</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Click-on Press fitting</th>
<th>Impresso without tools</th>
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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 48/9

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### ORDER INFORMATION FOR DRILLING PATTERN 42/11

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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 42/11

**CUP DIMENSIONS**

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**Tiomos 110**

110° hinge (door thicknesses up to 24 mm)

**CUP DIMENSIONS**

<table>
<thead>
<tr>
<th>Diameter (mm)</th>
<th>39 (40.5)</th>
<th>62 (64.5)</th>
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<tbody>
<tr>
<td><strong>Impresso</strong></td>
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**Accessories** 150

**Tipmatic** 344

**Technical information** 152

**Assembly aids** 794
# ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Cranking</th>
<th>Damper with</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Click-on Press fitting</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
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<tr>
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<tr>
<td>Half overlay</td>
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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 52/5.5

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Press fitting</th>
<th>Combination drilling pattern for Impresso</th>
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### CUP DIMENSIONS

![Cup Dimensions Diagram](image)

## ORDER INFORMATION FOR DRILLING PATTERN 48/6

<table>
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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 48/6

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Press fitting</th>
<th>Combination drilling pattern for Impresso</th>
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### CUP DIMENSIONS

![Cup Dimensions Diagram](image)

- Tiomos mounting plates: 144
- Accessories: 150
- Tipmatic: 344
- Technical information: 152
- Assembly aids: 794
TIOMOS 120
120° hinge (door thicknesses up to 24 mm)

- 120° opening angle
- Optimum reveals for door thicknesses up to 24 mm
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Cranking</th>
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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

<table>
<thead>
<tr>
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<th>Cranking</th>
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<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
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ACCESSORIES

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<td>Tipmatic Pin for wooden and aluminium frame doors</td>
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</table>

<table>
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<tbody>
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</table>

Tiomos mounting plates 144
Accessories 150
Tipmatic 344
Technical information 152
Assembly aids 794
## INSTALLATION INFORMATION

All dimensions in millimetres

### 120° HINGE SYSTEMS

#### TIOMOS 120

**120° HINGE**

**INSTALLATION INFORMATION**

**All dimensions in millimetres**

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<thead>
<tr>
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</table>

**Door overlay**

**Mounting plate height 2**

### MINIMUM GAP

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<th>Cup distance</th>
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**Door thickness**

**Minimum gap**

### MINIMUM REVEAL

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**Door thickness**

**Minimum reveal (F)**

### 85° OPENING ANGLE

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**Door thickness**

**Minimum reveal (F)**

### NOTES

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

For door thicknesses of 24 mm and above, a trial fitting is recommended.

### DRILLING PATTERNS 45/9.5

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Press fitting</th>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

### CUP DIMENSIONS

- 39 (60.5) mm
- 52 (84.5) mm

For more information, please refer to the catalogue.
## ORDER INFORMATION FOR DRILLING PATTERN 48/9

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Cranking</th>
<th>Damper with</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Item No.</th>
<th>Click-on Press fitting</th>
<th>Impresso without tools</th>
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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated

---

## CUP DIMENSIONS

**ORDER INFORMATION FOR DRILLING PATTERN 42/11**

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Cranking</th>
<th>Damper with</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Item No.</th>
<th>Click-on Press fitting</th>
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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated

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## CUP DIMENSIONS

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<th>Item</th>
<th>Code</th>
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<td>Tipmatic</td>
<td>344</td>
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<td>Technical information</td>
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<td>Assembly aids</td>
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### ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Cranking</th>
<th>Damper with</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Click-on Press fitting</th>
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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 52/5.5

#### Screw fixing

![Screw fixing diagram]

#### Press fitting

![Press fitting diagram]

#### Combination drilling pattern for Impresso

![Combination drilling pattern diagram]

### CUP DIMENSIONS

![Cup dimensions diagram]

### ORDER INFORMATION FOR DRILLING PATTERN 48/6

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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 48/6

#### Screw fixing

![Screw fixing diagram]

#### Press fitting

![Press fitting diagram]

#### Combination drilling pattern for Impresso

![Combination drilling pattern diagram]

### CUP DIMENSIONS

![Cup dimensions diagram]

### Tiomos mounting plates

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
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<td>Tiomos mounting plates</td>
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### Tipmatic

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<td>Technical information</td>
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Assembly aids | 794 |
TIOMOS 160
160° wide-angle hinge (door thicknesses up to 32 mm)

- 160° opening angle
- Convenient depth adjustment via worm gear
- For cabinets with inset drawers or pull-out shelves
- Optimum reveals for door thicknesses up to 32 mm
- 3-dimensional adjustment with appropriate mounting plate
- Minimum reveals
- Shallow cup depth

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
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<tr>
<th>Door overlay</th>
<th>Cranking</th>
<th>Damper with</th>
<th>Damper without</th>
<th>Item No. Click-on Screw fixing</th>
<th>Item No. Click-on Press fitting</th>
<th>Item No. Impresso without tools</th>
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1 Cup material: Zamak, nickel-plated / Arm material: Zamak, nickel-plated

ACCESSORIES

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<tr>
<td>Tipmatic Pin for wooden and aluminium frame doors</td>
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<table>
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MITRED APPLICATION (ON ALL SIDES)

With 0 cranking, mounting plate height 19 mm and cup distance 4 mm, door and cabinet edges can meet at mitred angles on all 4 sides.

Use 120° opening angle reduction clip.

NO INWARD OFFSET

For cabinets with inset drawers.

At 0 cranking, and with all mounting plate thicknesses, the door protrudes inwards at 90°. With cranking size 3 and mounting plate height 3 mm, the door will be flush with the cabinet.
## Hinge Systems

### Tiemos 160

#### 160° Wide-Angle Hinge

## Installation Information

**All dimensions in millimetres**

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<th>Full overlay</th>
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<th>K3</th>
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<th>K9.5</th>
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### Cup Dimensions

#### CUP DIMENSIONS

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<th>Door thickness</th>
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<tr>
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<td>39 (40.5)</td>
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<tr>
<td>6</td>
<td>62 (64.5)</td>
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</table>

### NOTES

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

No reveal is required for door thicknesses up to 28 mm. From 29 mm door thickness, we recommend a trial fitting.

### Minimum Gap

<table>
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<tr>
<th>Door thickness</th>
<th>Cup distance</th>
<th>Cup distance</th>
<th>Cup distance</th>
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### Minimum Reveal

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### Drill Patterns

#### 45/9.5

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<th>Press fitting</th>
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<tbody>
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#### Combination Drilling Pattern for Impresso

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<th>Combination drilling pattern for Impresso</th>
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### DRILLING PATTERNS 45/9.5

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### Cup Dimensions

- **Impresso**

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<td>39 (40.5)</td>
<td>62 (64.5)</td>
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**All dimensions in millimetres. Subject to changes**

05-2011

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ORDER INFORMATION FOR DRILLING PATTERN 48/9

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<th>Door overlay</th>
<th>Cranking</th>
<th>Damper with</th>
<th>Damper without spring</th>
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<th>Click-on Press fitting</th>
<th>Impresso without tools</th>
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1 Cup material: Zamak, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 48/9

CUP DIMENSIONS

ORDER INFORMATION FOR DRILLING PATTERN 42/11

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1 Cup material: Zamak, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 42/11

CUP DIMENSIONS

Tiomos 160
160° wide-angle hinge (door thickness up to 32 mm)

GRASS THE CATALOGUE
Packaging units are not covered in this catalogue; please enquire with your supplier

05-2011
## ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
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<th>Door overlay</th>
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1 Cup material: Zamak, nickel-plated / Arm material: Zamak, nickel-plated

## DRILLING PATTERNS 52/5.5

- **Screw fixing**
- **Press fitting**
- **Combination drilling pattern for Impresso**

## CUP DIMENSIONS

<table>
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<tr>
<th>Cup material</th>
<th>Impresso</th>
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## ORDER INFORMATION FOR DRILLING PATTERN 48/6

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<th>Damper with</th>
<th>Damper without spring</th>
<th>Item No. with</th>
<th>Item No. without</th>
<th>Impresso without tools</th>
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1 Cup material: Zamak, nickel-plated / Arm material: Zamak, nickel-plated

## DRILLING PATTERNS 48/6

- **Screw fixing**
- **Press fitting**
- **Combination drilling pattern for Impresso**

## CUP DIMENSIONS

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Tiomos mounting plates 144
Accessories 150
Tipmatic 344
Technical information 152
Assembly aids 794

All dimensions in millimetres. Subject to changes

THE CATALOGUE GRASS 97
TIOMOS 95
95° hinge (door thicknesses up to 36 mm)

- 95° opening angle
- Optimum reveals up to 36 mm door thicknesses
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated
3 Available on request

COVER CAPS

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ACCESSORIES

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Tiomos mounting plates 144
Accessories 150
Tipmatic 344
Technical information 152
Assembly aids 794
**INSTALLATION INFORMATION**

All dimensions in millimetres

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**MINIMUM GAP**

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**MINIMUM REVEAL**

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**NOTES**

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance. Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting). No reveal is required for door thicknesses up to 28 mm. From 29 mm door thickness, we recommend a trial fitting.

**DRILLING PATTERNS 45/9.5**

- Screw fixing
- Press fitting
- Combination drilling pattern for Impresso

**CUP DIMENSIONS**

All dimensions in millimetres. Subject to changes

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05-2011

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## ORDER INFORMATION FOR DRILLING PATTERN 48/9

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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated
3 Available on request

## DRILLING PATTERNS 48/9

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Press fitting</th>
<th>Combination drilling pattern for Impresso</th>
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## CUP DIMENSIONS

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## ORDER INFORMATION FOR DRILLING PATTERN 42/11

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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated
3 Available on request

## DRILLING PATTERNS 42/11

<table>
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<tr>
<th>Screw fixing</th>
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## CUP DIMENSIONS

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**Accessories**

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<tr>
<th>Tiomos mounting plates</th>
<th>Tipmatic</th>
<th>Technical information</th>
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### ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated
3 Available on request

### DRILLING PATTERNS 52/5.5

**Screw fixing**
- Full overlay 1
- Overlay 1
- Half overlay 2
- Inset 2

**Press fitting**
- Full overlay 1
- Overlay 1
- Half overlay 2
- Inset 2

**Combination drilling pattern for Impresso**

### ORDER INFORMATION FOR DRILLING PATTERN 48/6

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1 Cup material: steel, nickel-plated / Arm material: steel, nickel-plated
2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated
3 Available on request

### DRILLING PATTERNS 48/6

**Screw fixing**
- Full overlay 1
- Overlay 1
- Half overlay 2
- Inset 2

**Press fitting**
- Full overlay 1
- Overlay 1
- Half overlay 2
- Inset 2

**Combination drilling pattern for Impresso**

### CUP DIMENSIONS

**ORDER INFORMATION FOR DRILLING PATTERN 52/5.5**

**CUP DIMENSIONS**

**ORDER INFORMATION FOR DRILLING PATTERN 48/6**

**CUP DIMENSIONS**
TIOMOS 110 AL
110° aluminium frame hinge (frame thicknesses up to 24 mm)

- 110° opening angle
- Optimum reveals with aluminium frames up to max. 24 mm frame thickness and 22 mm frame width
- Hinge not visible from the outside
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION

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COVER CAPS

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ACCESSORIES

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Tiomos mounting plates 144
Accessories 150
**INSTALLATION INFORMATION**

All dimensions in millimetres

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**MINIMUM REVEAL**

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**INSTALLATION DIMENSIONS**

Hinge dimensions and reveal calculation with factory setting

Fixing screws are not supplied
TIOMOS 110/90E
110° blind corner hinge (inset)

- Hinge for blind corner constructions
- 110° opening angle
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate
- Minimum reveals

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Press fitting</th>
<th>Impresso without tools</th>
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</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Cranking</th>
<th>Imprinted/ Embossed</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
<td>0/3/9.5/19</td>
<td>On request</td>
<td>F072135500</td>
</tr>
<tr>
<td>Hinge arm cover cap, steel, long, nickel-plated, not imprinted</td>
<td>0/3</td>
<td>On request</td>
<td>F072135504</td>
</tr>
<tr>
<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
<td>0/3/9.5/19</td>
<td>On request</td>
<td>F072135503</td>
</tr>
</tbody>
</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>Designation</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tipmatic Pin for wooden and aluminium frame doors</td>
<td>F069068873</td>
</tr>
<tr>
<td>Countersunk wood screw Ø 3.5 x 15 mm</td>
<td>F146073976</td>
</tr>
</tbody>
</table>

Tiomos mounting plates | 144
Accessories | 150
Tipmatic | 344
Technical information | 152
Assembly aids | 794
**INSTALLATION INFORMATION**

All dimensions in millimetres

**MINIMUM REVEAL**

<table>
<thead>
<tr>
<th>Door thickness</th>
<th>Cup distance (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.0</td>
<td>2.4 2.1 2.1 2.1 2.0</td>
</tr>
<tr>
<td>22.0</td>
<td>1.6 1.6 1.5 1.5 1.5</td>
</tr>
<tr>
<td>21.0</td>
<td>1.4 1.3 1.3 1.3 1.3</td>
</tr>
<tr>
<td>20.0</td>
<td>1.1 1.1 1.1 1.1 1.1</td>
</tr>
<tr>
<td>19.0</td>
<td>0.9 0.9 0.9 0.9 0.9</td>
</tr>
<tr>
<td>18.0</td>
<td>0.7 0.7 0.7 0.7 0.7</td>
</tr>
<tr>
<td>17.0</td>
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</tr>
<tr>
<td>16.0</td>
<td>0.6 0.6 0.6 0.6 0.6</td>
</tr>
<tr>
<td>Minimum reveal (F)</td>
<td></td>
</tr>
</tbody>
</table>

**NOTES**

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

Use standard mounting plate height 3 to ensure that door is flush fitting.

Hinge dimensions and reveal calculation with factory setting.

Door protrudes inwards when fully opened.

**CUP DIMENSIONS**
ORDER INFORMATION FOR DRILLING PATTERN 48/9

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>CUP DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset ¹</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 48/9

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Press fitting</th>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
</table>

CUP DIMENSIONS

ORDER INFORMATION FOR DRILLING PATTERN 42/11

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>CUP DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset ¹</td>
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</tr>
</tbody>
</table>

¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 42/11

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Press fitting</th>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
</table>

CUP DIMENSIONS

GRASS THE CATALOGUE

Packaging units are not covered in this catalogue; please enquire with your supplier.

05-2011
### ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Click-on Press fitting</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset 1</td>
<td>-</td>
<td>-</td>
<td>F028 138718</td>
<td>F028 138728</td>
<td>F017 139512</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>F045 138656</td>
<td>F045 138666</td>
<td>F034 139483</td>
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<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>F046 138778</td>
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<td>-</td>
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*a Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 52/5.5

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Press fitting</th>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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</tbody>
</table>

### CUP DIMENSIONS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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<tbody>
<tr>
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<td></td>
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</tbody>
</table>

### ORDER INFORMATION FOR DRILLING PATTERN 48/6

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Click-on Press fitting</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
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<td>F028 138900</td>
<td>F028 138910</td>
<td>F017 139512</td>
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<td>F045 138848</td>
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</tbody>
</table>

*a Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 48/6

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Press fitting</th>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

### CUP DIMENSIONS

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

### Tiomos mounting plates

- 144

### Accessories

- 150

### Tipmatic

- 344

### Technical information

- 152

### Assembly aids

- 794
TIOMOS 110/30A
+30° angle corner cabinet hinge (overlay)

- For 30° angled cabinets
- 110° opening angle
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate
- Minimum reveals

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Damper</th>
<th>Item No.</th>
<th>Impresse werkzeugs</th>
</tr>
</thead>
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<tr>
<td>with</td>
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<td></td>
</tr>
<tr>
<td>without</td>
<td></td>
<td></td>
</tr>
<tr>
<td>with spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Click-on Screw fixing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Impresso werkzeugs</td>
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Door overlay

<table>
<thead>
<tr>
<th>Overlay 1</th>
<th>Item No.</th>
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<tbody>
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Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Imprinted/ Embossed</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
<td>On request</td>
<td>F072135500</td>
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<tr>
<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
<td>On request</td>
<td>F072135503</td>
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ACCESSORIES

<table>
<thead>
<tr>
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<th>Item No.</th>
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</thead>
<tbody>
<tr>
<td>Tipmatic Pin for wooden and aluminium frame doors</td>
<td>F069068873</td>
</tr>
<tr>
<td>Countersunk wood screw Ø 3.5 x 15 mm</td>
<td>F146073976</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Designation</th>
<th>Item No.</th>
</tr>
</thead>
</table>

Tiemos mounting plates 144  Accessories 150  Tipmatic 344  Assembly aids 794  Technical information 152
INSTALLATION INFORMATION

All dimensions in millimetres

MINIMUM GAP

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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</thead>
<tbody>
<tr>
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</table>

Door overlay

<table>
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<tr>
<th>Minimum gap</th>
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</table>

MINIMUM REVEAL

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.0</td>
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<td>2.1</td>
<td>2.1</td>
<td>2.1</td>
<td>2.0</td>
</tr>
<tr>
<td>22.0</td>
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<td>1.6</td>
<td>1.6</td>
<td>1.5</td>
</tr>
<tr>
<td>21.0</td>
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<td>1.3</td>
<td>1.3</td>
<td>1.3</td>
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<td>1.1</td>
<td>1.1</td>
<td>1.1</td>
<td>1.1</td>
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<tr>
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<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
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<td>0.7</td>
<td>0.7</td>
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<td>0.7</td>
</tr>
<tr>
<td>17.0</td>
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<td>0.6</td>
</tr>
<tr>
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<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
</tr>
</tbody>
</table>

Door thickness

| Minimum reveal (F) |

NOTES

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

Hinge dimensions and reveal calculation with factory setting.

DRILLING PATTERNS 45/9.5

Screw fixing

Combination drilling pattern for Impresso

CUP DIMENSIONS

Hinge Systems

TIOMOS 110/30A

+30° Angle Corner Cabinet Hinge
### ORDER INFORMATION FOR DRILLING PATTERN 48/9

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td>■ - -</td>
<td>F028138103</td>
<td>F017139335</td>
</tr>
<tr>
<td></td>
<td>- ■ -</td>
<td>F045138010</td>
<td>F034139306</td>
</tr>
<tr>
<td></td>
<td>- - ■</td>
<td>F046138194</td>
<td>-</td>
</tr>
</tbody>
</table>

* Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 48/9

#### Screw fixing

![Diagram](48/9_screw_fixing.png)

#### Combination drilling pattern for Impresso

![Diagram](48/9_combination.png)

### CUP DIMENSIONS

<table>
<thead>
<tr>
<th>CUP DIMENSIONS</th>
<th>Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td>39 (40.5)</td>
<td>62 (64.5)</td>
</tr>
</tbody>
</table>

### ORDER INFORMATION FOR DRILLING PATTERN 42/11

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td>■ - -</td>
<td>F028138347</td>
<td>F017139420</td>
</tr>
<tr>
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<td>- ■ -</td>
<td>F045138285</td>
<td>F034139391</td>
</tr>
<tr>
<td></td>
<td>- - ■</td>
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</tr>
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</table>

* Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 42/11

#### Screw fixing

![Diagram](42/11_screw_fixing.png)

#### Combination drilling pattern for Impresso

![Diagram](42/11_combination.png)

### CUP DIMENSIONS

<table>
<thead>
<tr>
<th>CUP DIMENSIONS</th>
<th>Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td>39 (40.5)</td>
<td>62 (64.5)</td>
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</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>TIOMOS 110/30A</th>
<th>Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>+30° angle corner cabinet hinge (overlay)</td>
<td>144</td>
</tr>
<tr>
<td>Tipmatic</td>
<td>150</td>
</tr>
<tr>
<td>Tipmatic 344</td>
<td>344</td>
</tr>
<tr>
<td>Technical information</td>
<td>152</td>
</tr>
<tr>
<td>Assembly aids</td>
<td>794</td>
</tr>
</tbody>
</table>

Packaging units are not covered in this catalogue; please enquire with your supplier.
ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
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<td>F017139505</td>
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Notes:
- Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 52/5.5

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Combination drilling pattern for Impresso</th>
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</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

CUP DIMENSIONS

ORDER INFORMATION FOR DRILLING PATTERN 48/6

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impresso without tools</th>
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</thead>
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Notes:
- Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 48/6

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

CUP DIMENSIONS

Tiomos mounting plates 144
Accessories 150
Tipmatic 344
Technical information 152
Assembly aids 794

Notes:
- All dimensions in millimetres. Subject to changes

THE CATALOGUE GRASS 111
TIOMOS 110/30E
+30° angle corner cabinet hinge (inset)

For 30° angled cabinets
110° opening angle
Convenient depth adjustment via worm gear
3-dimensional adjustment with appropriate mounting plate
Minimum reveals

Available in 3 versions:
• With integrated damper (3 adjustable damping levels)
• Without integrated damper
• Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>with</td>
<td>without</td>
</tr>
<tr>
<td></td>
<td>without</td>
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1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Imprinted/ Embossed</th>
<th>Item No.</th>
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</thead>
<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
<td>On request</td>
<td>F072135500</td>
</tr>
<tr>
<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
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ACCESSORIES

<table>
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<td>Countersunk wood screw Ø 3.5 x 15 mm</td>
<td>F146073976</td>
</tr>
</tbody>
</table>

Tiomos mounting plates 144
Accessories 150
Tipmatic 344
Technical information 152
Assembly aids 794
INSTALLATION INFORMATION

Inset

Cross mounting plates with fixing distance 37

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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</thead>
<tbody>
<tr>
<td>22</td>
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<td>21</td>
<td>9</td>
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<td>20</td>
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</tr>
<tr>
<td>19</td>
<td>8</td>
<td>9</td>
<td>9.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18</td>
<td>8</td>
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<td>17</td>
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<td>15</td>
<td>6</td>
<td>9</td>
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</tbody>
</table>

Door thickness

Mounting plate height

Minimum reveal

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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</thead>
<tbody>
<tr>
<td>24.0</td>
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<td>2.1</td>
<td>2.0</td>
</tr>
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<td>1.6</td>
<td>1.5</td>
<td>1.5</td>
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<td>1.1</td>
<td>1.1</td>
<td>1.1</td>
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<td>0.9</td>
<td>0.9</td>
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<tr>
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<td>0.6</td>
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<td>16.0</td>
<td>0.6</td>
<td>0.6</td>
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<td>0.6</td>
</tr>
<tr>
<td>15.0</td>
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<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
</tr>
</tbody>
</table>

Minimum reveal (F)

NOTES

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

For door thicknesses of 22 mm and above, a trial fitting is recommended.

DRILLING PATTERNS 45/9.5

Screw fixing

Combination drilling pattern for Impresso

CUP DIMENSIONS
### ORDER INFORMATION FOR DRILLING PATTERN 48/9

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>Damper without</th>
<th>Click-on Screw fixing</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset 1</td>
<td>-</td>
<td>-</td>
<td>F028138104</td>
<td>F017139336</td>
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<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>F045138011</td>
<td>F034139307</td>
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<tr>
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<td>-</td>
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</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

#### DRILLING PATTERNS 48/9

**Screw fixing**

![Combination drilling pattern for Impresso](image)

**CUP DIMENSIONS**

![Cup dimensions](image)

### ORDER INFORMATION FOR DRILLING PATTERN 42/11

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>Damper without</th>
<th>Click-on Screw fixing</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset 1</td>
<td>-</td>
<td>-</td>
<td>F028138348</td>
<td>F017139421</td>
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</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

#### DRILLING PATTERNS 42/11

**Screw fixing**

![Combination drilling pattern for Impresso](image)

**CUP DIMENSIONS**

![Cup dimensions](image)
**ORDER INFORMATION FOR DRILLING PATTERN 52/5.5**

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset ¹</td>
<td>with</td>
<td>without</td>
<td>Screw fixing</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
<td>-</td>
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<td></td>
<td>-</td>
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</tr>
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¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

**DRILLING PATTERNS 52/5.5**

**CUP DIMENSIONS**

**ORDER INFORMATION FOR DRILLING PATTERN 48/6**

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset ¹</td>
<td>with</td>
<td>without</td>
<td>Screw fixing</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>F028138894</td>
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</table>

¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

**DRILLING PATTERNS 48/6**

**CUP DIMENSIONS**

<table>
<thead>
<tr>
<th>Tiomos mounting plates</th>
<th>Accessories</th>
<th>Tipmatic</th>
<th>Technical information</th>
<th>Assembly aids</th>
</tr>
</thead>
<tbody>
<tr>
<td>144</td>
<td>150</td>
<td>344</td>
<td>152</td>
<td>794</td>
</tr>
</tbody>
</table>

All dimensions in millimetres. Subject to changes
TIOMOS 110/37A
+37° angle corner cabinet hinge (overlay)

- For 37° angled cabinets
- 110° opening angle
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate
- Minimum reveals

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>with</td>
<td>without</td>
</tr>
<tr>
<td></td>
<td>without</td>
<td>spring</td>
</tr>
<tr>
<td>Overlay 1</td>
<td>-</td>
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<tr>
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1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Imprinted/Embossed</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
<td>On request</td>
<td>F072135500</td>
</tr>
<tr>
<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
<td>On request</td>
<td>F072135503</td>
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</tbody>
</table>

ACCESSORIES

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<th>Designation</th>
<th>Item No.</th>
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<tbody>
<tr>
<td>Tipmatic Pin for wooden and aluminium frame doors</td>
<td>F06906873</td>
</tr>
<tr>
<td>Countersunk wood screw Ø 3.5 x 15 mm</td>
<td>F146073976</td>
</tr>
</tbody>
</table>

Packaging units are not covered in this catalogue; please enquire with your supplier

05-2011
INSTALLATION INFORMATION

All dimensions in millimetres

1. Overlay

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
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<tbody>
<tr>
<td>Cross mounting plate position (X)</td>
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2. Minimum gap

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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</thead>
<tbody>
<tr>
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<tr>
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<tr>
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<td>1.0</td>
</tr>
<tr>
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<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
<tr>
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<td>1.0</td>
<td>1.0</td>
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<tr>
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<td>1.0</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Door thickness</th>
<th>Minimum gap</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.0</td>
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<tr>
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<td>21.0</td>
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<td>23.0</td>
<td>0.9</td>
</tr>
<tr>
<td>24.0</td>
<td>0.9</td>
</tr>
</tbody>
</table>

3. Minimum reveal

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.0</td>
<td>2.4</td>
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<td>2.1</td>
<td>2.1</td>
<td>2.0</td>
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<tr>
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<td>0.7</td>
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<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
</tr>
<tr>
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<td>0.6</td>
<td>0.6</td>
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</table>

<table>
<thead>
<tr>
<th>Door thickness</th>
<th>Minimum reveal (F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.0</td>
<td>1.0</td>
</tr>
<tr>
<td>20.0</td>
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</tr>
<tr>
<td>21.0</td>
<td>0.9</td>
</tr>
<tr>
<td>22.0</td>
<td>0.9</td>
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<tr>
<td>23.0</td>
<td>0.9</td>
</tr>
<tr>
<td>24.0</td>
<td>0.9</td>
</tr>
</tbody>
</table>

4. Notes

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

We recommend a trial fitting.

5. Drilling patterns 45/9.5

Screw fixing

Combination drilling pattern for Impresso

Cup dimensions

All dimensions in millimetres. Subject to changes
## ORDER INFORMATION FOR DRILLING PATTERN 48/9

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Item No. without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td>□ - -</td>
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</tr>
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<td>- □ -</td>
<td>-</td>
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<td>F034139308</td>
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<tr>
<td></td>
<td>- - □</td>
<td>-</td>
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<td>-</td>
</tr>
</tbody>
</table>

* Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 48/9

**CUP DIMENSIONS**

<table>
<thead>
<tr>
<th>Drill pattern</th>
<th>Cup dimensions</th>
<th>Impresso min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
<td>39 (40.5)</td>
<td>12.6</td>
</tr>
<tr>
<td>45</td>
<td>39 (40.5)</td>
<td>12.6</td>
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</tbody>
</table>

## ORDER INFORMATION FOR DRILLING PATTERN 42/11

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Item No. without tools</th>
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</thead>
<tbody>
<tr>
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<td>-</td>
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<td>- - □</td>
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</tbody>
</table>

* Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 42/11

**CUP DIMENSIONS**

<table>
<thead>
<tr>
<th>Drill pattern</th>
<th>Cup dimensions</th>
<th>Impresso min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
<td>39 (40.5)</td>
<td>12.6</td>
</tr>
<tr>
<td>45</td>
<td>39 (40.5)</td>
<td>12.6</td>
</tr>
</tbody>
</table>

### ACCESSORIES

- Tiemos mounting plates: 144
- Accessories: 150
- Tipmatic: 344
- Technical information: 152
- Assembly aids: 794

Packaging units are not covered in this catalogue; please enquire with your supplier.
ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
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</tbody>
</table>

2  Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 52/5.5

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Combination drilling pattern for Impresso</th>
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</thead>
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ORDER INFORMATION FOR DRILLING PATTERN 48/6

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Item No.</th>
<th>Impresso without tools</th>
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</thead>
<tbody>
<tr>
<td>Overlay 1</td>
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2  Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 48/6

Order information for drilling pattern 52/5.5 and 48/6 includes details on damper options, screw fixing, and overall specifications. The catalog provides technical information and assembly aids for the respective hinge systems. All dimensions are in millimeters and subject to change.
TIOMOS 110/37E
+37° angle corner cabinet hinge (inset)

- For 37° angled cabinets
- 110° opening angle
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate
- Small opening forces
- Minimum reveals

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>without</th>
<th>Item No.</th>
<th>Click-on Screw fixing</th>
<th>Impresso without tools</th>
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</thead>
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<td>F045138470</td>
<td>F034139309</td>
<td>F046138592</td>
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2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Imprinted/ Embossed</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
<td>On request</td>
<td>F072135500</td>
</tr>
<tr>
<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
<td>On request</td>
<td>F072135503</td>
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</table>

ACCESSORIES

<table>
<thead>
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<th>Designation</th>
<th>Item No.</th>
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<tbody>
<tr>
<td>Tipmatic Pin for wooden and aluminium frame doors</td>
<td>F069068873</td>
</tr>
<tr>
<td>Countersunk wood screw Ø 3.5 x 15 mm</td>
<td>F146073976</td>
</tr>
</tbody>
</table>

2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated
INSTALLATION INFORMATION

All dimensions in millimetres

Inset

![Diagram of hinge system]

Mounting plate height 12

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
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Cross mounting plate with fixing distance 37

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Door overlay

Door thickness

Minimum reveal

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Door thickness

Minimum reveal (F)

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NOTE:

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

For door thicknesses of 22 mm and above, a trial fitting is recommended.

DRILLING PATTERNS 45/9.5

Screw fixing

Combination drilling pattern for Impresso

CUP DIMENSIONS

MINIMUM REVEAL

Door thickness

NOTES

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

For door thicknesses of 22 mm and above, a trial fitting is recommended.
# TIOMOS 110/37E

+37° angle corner cabinet hinge (inset)

---

## ORDER INFORMATION FOR DRILLING PATTERN 48/9

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Impreso without tools</th>
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</thead>
<tbody>
<tr>
<td>Inset ¹</td>
<td>with</td>
<td>without</td>
<td>F028138106</td>
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<tr>
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¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 48/9

- **Screw fixing**

### CUP DIMENSIONS

---

## ORDER INFORMATION FOR DRILLING PATTERN 42/11

<table>
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</table>

¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 42/11

- **Screw fixing**

### CUP DIMENSIONS

---

## Tiomos mounting plates

144

## Accessories

150

## Tipmatic

344

## Technical information

152

## Assembly aids

794

---

Packaging units are not covered in this catalogue; please enquire with your supplier.

---

GRASS THE CATALOGUE

05-2011
ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impreso without tools</th>
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<th>139</th>
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</table>

2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 52/5.5

CUP DIMENSIONS

ORDER INFORMATION FOR DRILLING PATTERN 48/6

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
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2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 48/6

CUP DIMENSIONS

<table>
<thead>
<tr>
<th>Tiomos mounting plates</th>
<th>144</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessories</td>
<td>150</td>
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<table>
<thead>
<tr>
<th>Tipmatic</th>
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<tbody>
<tr>
<td>Technical information</td>
<td>152</td>
</tr>
<tr>
<td>Assembly aids</td>
<td>794</td>
</tr>
</tbody>
</table>

All dimensions in millimetres. Subject to changes.
TIOMOS 110/45A
+45° angle corner cabinet hinge (overlay)

- For 45° angled cabinets
- 110° opening angle
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate
- Minimum reveals

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Click-on Screw fixing</th>
<th>Impresso without tools</th>
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</thead>
<tbody>
<tr>
<td>Overlay ¹</td>
<td>with damper F028</td>
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<td></td>
<td>without damper F045</td>
<td>138471</td>
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<td>without damper F046</td>
<td>138593</td>
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¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

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<th>Imprinted/ Embossed</th>
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<tr>
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<td>F072135500</td>
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<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
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ACCESSORIES

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<td>Tipmatic Pin for wooden and aluminium frame doors</td>
<td>F069068873</td>
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<tr>
<td>Countersunk wood screw Ø 3.5 x 15 mm</td>
<td>F146073976</td>
</tr>
</tbody>
</table>

Tiomos mounting plates 144
Accessories 150
Tipmatic 344
Technical information 152
Assembly aids 794
INSTALLATION INFORMATION

**Overlay 1**

**Cup distance**

<table>
<thead>
<tr>
<th>Door overlap</th>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
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**Mounting plate height**

**MINIMUM GAP**

<table>
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<th>5</th>
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<th>7</th>
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</tbody>
</table>

**MINIMUM REVEAL**

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>24.0</td>
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<td>2.1</td>
<td>2.1</td>
<td>2.0</td>
</tr>
<tr>
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<td>1.6</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
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<td>1.3</td>
<td>1.3</td>
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<td>1.1</td>
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<td>0.9</td>
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<td>0.6</td>
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</tr>
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<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
<td>0.6</td>
</tr>
</tbody>
</table>

**NOTES**

The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance.

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

For door thicknesses of 22 mm and above, a trial fitting is recommended.

**DRILLING PATTERNS 45/9.5**

**CUP DIMENSIONS**
### ORDER INFORMATION FOR DRILLING PATTERN 48/9

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td>-</td>
<td>-</td>
<td>F008 138107</td>
<td>F017139339</td>
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</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>F045 138014</td>
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</tr>
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<td></td>
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<td>-</td>
<td>F046 138198</td>
<td>-</td>
<td></td>
</tr>
</tbody>
</table>

* Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 48/9

#### Screw fixing

- 48
- 35
- +0.1

#### Combination drilling pattern for Impresso

- 48
- 8
- 45
- 9
- 35
- +0.1

#### CUP DIMENSIONS

- 39 (40.5)
- 62 (64.5)

### ORDER INFORMATION FOR DRILLING PATTERN 42/11

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>Damper without spring</th>
<th>Click-on Screw fixing</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td>-</td>
<td>-</td>
<td>F028 138351</td>
<td>F017139424</td>
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</tr>
<tr>
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<td>F045 138289</td>
<td>F034139395</td>
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<td></td>
</tr>
</tbody>
</table>

* Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 42/11

#### Screw fixing

- 42
- 8
- 11
- 35
- +0.1

#### Combination drilling pattern for Impresso

- 42
- 8
- 9.5
- 35
- +0.1

#### CUP DIMENSIONS

- 39 (40.5)
- 62 (64.5)

### Technical information

- Tiemos mounting plates: 144
- Tipmatic: 344
- Technical information: 152
- Assembly aids: 794

---

2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

---

GRASS THE CATALOGUE

Packaging units are not covered in this catalogue; please enquire with your supplier.

05-2011
# ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>Damper without</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td>-</td>
<td>-</td>
<td>F028138715</td>
<td>F017139509</td>
</tr>
<tr>
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<td>-</td>
<td>-</td>
<td>F045138653</td>
<td>F034139480</td>
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<td>-</td>
<td>-</td>
<td>F046138775</td>
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</tr>
</tbody>
</table>

* Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

## DRILLING PATTERNS 52/5.5

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## CUP DIMENSIONS

<table>
<thead>
<tr>
<th>CUP DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 (40.5)</td>
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</tbody>
</table>

# ORDER INFORMATION FOR DRILLING PATTERN 48/6

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>Damper without</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
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<td>F028138897</td>
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</tbody>
</table>

* Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

## DRILLING PATTERNS 48/6

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

## CUP DIMENSIONS

<table>
<thead>
<tr>
<th>CUP DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>39 (40.5)</td>
</tr>
</tbody>
</table>
TIOMOS 110/45E
+45° angle corner cabinet hinge (inset)

- For 45° angled cabinets
- 110° opening angle
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate
- Minimum reveals

Available in 3 versions:
- With integrated damper (3 adjustable damping levels)
- Without integrated damper
- Without self-closing mechanism (without spring)

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset 1</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>with</td>
<td>without</td>
</tr>
<tr>
<td></td>
<td>Damper</td>
<td>Click-on</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Screw fixing</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Impresso without tools</td>
</tr>
<tr>
<td></td>
<td>■</td>
<td>■</td>
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<tr>
<td></td>
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<td></td>
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</tr>
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</table>

2 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Imprinted/ Embossed</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
<td>On request</td>
<td>F072135500</td>
</tr>
<tr>
<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
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ACCESSORIES

<table>
<thead>
<tr>
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</tr>
<tr>
<td>Countersunk wood screw Ø 3.5 x 15 mm</td>
<td>F146073976</td>
</tr>
</tbody>
</table>

128 | GRASS THE CATALOGUE | Packaging units are not covered in this catalogue; please enquire with your supplier | 05-2011
INSTALLATION INFORMATION

All dimensions in millimetres

1. INSET

![Inset Diagram]

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
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<td>9</td>
<td>12</td>
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<tr>
<td>Door thickness</td>
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<td>Door overlay</td>
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</table>

2. MINIMUM REVEAL

![Minimum Reveal Diagram]

<table>
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<th>5</th>
<th>6</th>
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<tbody>
<tr>
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<td>2.0</td>
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<td>1.1</td>
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<td>0.6</td>
<td>0.6</td>
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</tr>
</tbody>
</table>

3. NOTES

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

We recommend a trial fitting.

4. DRILLING PATTERNS 45/9.5

![Drilling Patterns Diagram]

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Combination drilling pattern for Impresso</th>
<th>CUP DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. CUP DIMENSIONS

![Cup Dimensions Diagram]

All dimensions in millimetres. Subject to changes
**ORDER INFORMATION FOR DRILLING PATTERN 48/9**

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset ¹</td>
<td>with</td>
<td>without</td>
<td>Screw fixing</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>-</td>
<td>F028138108</td>
</tr>
<tr>
<td></td>
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<td>F045138015</td>
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<td></td>
<td>-</td>
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<td>F046138199</td>
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</table>

¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

**DRILLING PATTERNS 48/9**

**CUP DIMENSIONS**

**ORDER INFORMATION FOR DRILLING PATTERN 42/11**

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset ¹</td>
<td>with</td>
<td>without</td>
<td>Screw fixing</td>
</tr>
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¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

**DRILLING PATTERNS 42/11**

**CUP DIMENSIONS**

**Tiomos mounting plates** 144  
**Accessories** 150  
**Tipmatic** 344  
**Technical information** 152  
**Assembly aids** 794

Packaging units are not covered in this catalogue; please enquire with your supplier.
### ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>Damper without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inset ¹</td>
<td>-</td>
<td>-</td>
<td>F028138716</td>
<td>F017139510</td>
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<tr>
<td></td>
<td>-</td>
<td>■</td>
<td>F045138654</td>
<td>F034139481</td>
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<td>F046138776</td>
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</tr>
</tbody>
</table>

¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 52/5.5

**CUP DIMENSIONS**

**CUP DIMENSIONS**

### ORDER INFORMATION FOR DRILLING PATTERN 48/6

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>Damper without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
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<td>Inset ¹</td>
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<td>-</td>
<td>F028138898</td>
<td>F017139510</td>
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<td>F045138836</td>
<td>F034139481</td>
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<td>F046138958</td>
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</tr>
</tbody>
</table>

¹ Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 48/6

**CUP DIMENSIONS**

**CUP DIMENSIONS**

---

All dimensions in millimetres. Subject to changes

---

05-2011 THE CATALOGUE GRASS 131
TIOMOS 120/-15A
-15° angle corner cabinet hinge (overlay)

- For -15° angled cabinets
- 120° opening angle
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate
- Minimum reveals

Available in 2 versions:
- With integrated damper
  (3 adjustable damping levels)
- Without integrated damper

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impreso without tools a</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td>with</td>
<td>F028138555</td>
<td>F017139347</td>
</tr>
<tr>
<td></td>
<td>without spring</td>
<td>F045138493</td>
<td>F034139318</td>
</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Cranking</th>
<th>Imprinted/ Embossed</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
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<td>On request</td>
<td>F072135500</td>
</tr>
<tr>
<td>Hinge arm cover cap, steel, long, nickel-plated, not imprinted</td>
<td>0/3</td>
<td>On request</td>
<td>F072135504</td>
</tr>
<tr>
<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
<td>0/3/9.5/19</td>
<td>On request</td>
<td>F072135503</td>
</tr>
</tbody>
</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>Designation</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tipmatic Pin for wooden and aluminium frame doors</td>
<td>F06908873</td>
</tr>
<tr>
<td>Countersunk wood screw Ø 3.5 x 15 mm</td>
<td>F14607976</td>
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</table>

Tiomos mounting plates 144
Accessories 150

Technical information 152
Assembly aids 794

Packaging units are not covered in this catalogue; please enquire with your supplier 05-2011
INSTALLATION INFORMATION

Overlay:

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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</thead>
<tbody>
<tr>
<td>24.0</td>
<td>6.4</td>
<td>5.4</td>
<td>4.4</td>
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<td>2.4</td>
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<tr>
<td>22.0</td>
<td>3.0</td>
<td>2.0</td>
<td>1.5</td>
<td>1.5</td>
<td>1.5</td>
</tr>
<tr>
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<td>1.3</td>
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<tr>
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<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Minimum reveal:

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

We recommend a trial fitting.

NOTES:

DRILLING PATTERNS 45/9.5

Screw fixing

Combination drilling pattern for Impresso

CUP DIMENSIONS

All dimensions in millimetres. Subject to changes.

THE CATALOGUE GRASS 133
# ORDER INFORMATION FOR DRILLING PATTERN 48/9

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

# DRILLING PATTERNS 48/9

## Screw fixing

### Combination drilling pattern for Impresso

<table>
<thead>
<tr>
<th>48</th>
<th>35</th>
<th>+0.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>45</td>
<td>8</td>
<td>9.5</td>
</tr>
<tr>
<td>35</td>
<td>35</td>
<td>+0.1</td>
</tr>
</tbody>
</table>

## CUP DIMENSIONS

<table>
<thead>
<tr>
<th>39 (40.5)</th>
<th>62 (64.5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. 12.6</td>
<td></td>
</tr>
</tbody>
</table>

# ORDER INFORMATION FOR DRILLING PATTERN 42/11

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

# DRILLING PATTERNS 42/11

## Screw fixing

### Combination drilling pattern for Impresso

<table>
<thead>
<tr>
<th>42</th>
<th>8</th>
<th>11</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>35</td>
<td>+0.1</td>
</tr>
<tr>
<td>45</td>
<td>8</td>
<td>9.5</td>
</tr>
<tr>
<td>35</td>
<td>35</td>
<td>+0.1</td>
</tr>
</tbody>
</table>

## CUP DIMENSIONS

<table>
<thead>
<tr>
<th>39 (40.5)</th>
<th>62 (64.5)</th>
</tr>
</thead>
<tbody>
<tr>
<td>min. 12.6</td>
<td></td>
</tr>
</tbody>
</table>

# Tiomos 120/-15A

-15° angle corner cabinet hinge (overlay)
### ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td>F028 138737</td>
<td>F017 139517</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F045 138675</td>
<td>F034 139488</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated 2 Available on request

### DRILLING PATTERNS 52/5.5

#### Screw fixing

![Diagram of Screw fixing 52/5.5]

#### Combination drilling pattern for Impresso

![Diagram of Combination drilling pattern for Impresso 52/5.5]

### CUP DIMENSIONS

<table>
<thead>
<tr>
<th>CUP DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 (40.5)</td>
</tr>
<tr>
<td>67 (64.5)</td>
</tr>
<tr>
<td>3 (8)</td>
</tr>
</tbody>
</table>

### ORDER INFORMATION FOR DRILLING PATTERN 48/6

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td>F028 138919</td>
<td>F017 139517</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>F045 138857</td>
<td>F034 139488</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated 2 Available on request

### DRILLING PATTERNS 48/6

#### Screw fixing

![Diagram of Screw fixing 48/6]

#### Combination drilling pattern for Impresso

![Diagram of Combination drilling pattern for Impresso 48/6]

### CUP DIMENSIONS

<table>
<thead>
<tr>
<th>CUP DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>39 (40.5)</td>
</tr>
<tr>
<td>62 (64.5)</td>
</tr>
<tr>
<td>3 (8)</td>
</tr>
</tbody>
</table>

### Additional Information

- Tiomos mounting plates: 144
- Accessories: 150
- Technical information: 152
- Assembly aids: 794

All dimensions in millimetres. Subject to changes.
TIOMOS 120/-30A
-30° angle corner cabinet hinge (overlay)

- For -30° angled cabinets
- 120° opening angle
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate
- Minimum reveals

Available in 2 versions:
- With integrated damper
  (3 adjustable damping levels)
- Without integrated damper

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impreso without tools 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td>with</td>
<td>Item No.</td>
<td>Without screw fixing</td>
</tr>
<tr>
<td></td>
<td>without spring</td>
<td>05/138556</td>
<td>F017139348</td>
</tr>
<tr>
<td></td>
<td>without spring</td>
<td>045138494</td>
<td>F034139319</td>
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</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Cranking</th>
<th>Imprinted/ Embossed</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
<td>0/3/9.5/19</td>
<td>On request</td>
<td>F072135500</td>
</tr>
<tr>
<td>Hinge arm cover cap, steel, long, nickel-plated, not imprinted</td>
<td>0/3</td>
<td>On request</td>
<td>F072135504</td>
</tr>
<tr>
<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
<td>0/3/9.5/19</td>
<td>On request</td>
<td>F072135503</td>
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</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>Designation</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tipmatic Pin for wooden and aluminium frame doors</td>
<td>F069068873</td>
</tr>
<tr>
<td>Countersunk wood screw</td>
<td>F146073976</td>
</tr>
</tbody>
</table>

1 Available on request

Tiemos mounting plates 144
Accessories 150

Technical information 152
Assembly aids 794
## INSTALLATION INFORMATION

### Overlay 1

![Overlay Diagram](overlay_diagram.png)

**Mounting plate height 2**

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.0</td>
<td></td>
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<tr>
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<td></td>
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<tr>
<td>17.0</td>
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<tr>
<td>16.0</td>
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<td>15.0</td>
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<td>3</td>
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<tr>
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<td>3</td>
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<tr>
<td>13.0</td>
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<td>3</td>
<td></td>
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<tr>
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<td></td>
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<tr>
<td>9.5</td>
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<td>9.0</td>
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**Door overlay**

### Minimum Reveal

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
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<th>7</th>
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</thead>
<tbody>
<tr>
<td>24.0</td>
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<td>4.4</td>
<td>3.4</td>
<td>2.4</td>
</tr>
<tr>
<td>22.0</td>
<td>3.0</td>
<td>2.0</td>
<td>1.5</td>
<td>1.5</td>
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<td>1.3</td>
<td>1.3</td>
<td>1.3</td>
<td>1.3</td>
</tr>
<tr>
<td>19.0</td>
<td>1.1</td>
<td>1.1</td>
<td>1.1</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>18.0</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
<td>0.9</td>
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<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
</tr>
</tbody>
</table>

**Door thickness**

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

We recommend a trial fitting.

### DRILLING PATTERNS 45/9.5

- **Combination drilling pattern for Impresso**:

![Combination Drilling Pattern](impression_drilling_pattern.png)

- **CUP DIMENSIONS**:

![Cup Dimensions](cup_dimensions.png)
## ORDER INFORMATION FOR DRILLING PATTERN 48/9

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1  Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 48/9

#### Screw fixing

<table>
<thead>
<tr>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td>48</td>
</tr>
<tr>
<td>45</td>
</tr>
<tr>
<td>35 (40.5) ( ) Impresso</td>
</tr>
</tbody>
</table>

#### CUP DIMENSIONS

<table>
<thead>
<tr>
<th>CUP DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>39 (40.5) min. 12.6</td>
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</tbody>
</table>

## ORDER INFORMATION FOR DRILLING PATTERN 42/11

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with spring</th>
<th>Damper without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

1  Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

### DRILLING PATTERNS 42/11

#### Screw fixing

<table>
<thead>
<tr>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td>42</td>
</tr>
<tr>
<td>8</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>35 (40.5)</td>
</tr>
</tbody>
</table>

#### CUP DIMENSIONS

<table>
<thead>
<tr>
<th>CUP DIMENSIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>39 (40.5) min. 12.6</td>
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</tbody>
</table>

## Accessories

<table>
<thead>
<tr>
<th>Tiomos mounting plates</th>
<th>144</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accessories</td>
<td>150</td>
</tr>
</tbody>
</table>

## Technical information

| Technical information | 152 |

## Technical information

| Assembly aids | 794 |

Packaging units are not covered in this catalogue; please enquire with your supplier.
### ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>with</td>
<td>without</td>
<td>with</td>
</tr>
<tr>
<td></td>
<td>spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Overlay</td>
<td>■</td>
<td>-</td>
<td>F028138738</td>
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<tr>
<td></td>
<td>-</td>
<td>■</td>
<td>F045138676</td>
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</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

---

### DRILLING PATTERNS 52/5.5

#### Screw fixing

![Diagram of Screw fixing](image)

#### Combination drilling pattern for Impresso

![Diagram of Combination drilling pattern for Impresso](image)

### CUP DIMENSIONS

![Diagram of CUP DIMENSIONS](image)

---

### ORDER INFORMATION FOR DRILLING PATTERN 48/6

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>with</td>
<td>without</td>
<td>with</td>
</tr>
<tr>
<td></td>
<td>spring</td>
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<tr>
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<td>F028138920</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>■</td>
<td>F045138858</td>
</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

---

### DRILLING PATTERNS 48/6

#### Screw fixing

![Diagram of Screw fixing](image)

#### Combination drilling pattern for Impresso

![Diagram of Combination drilling pattern for Impresso](image)

### CUP DIMENSIONS

![Diagram of CUP DIMENSIONS](image)

---

Tiomos mounting plates 144
Accessories 150
Technical information 152
Assembly aids 794

All dimensions in millimetres. Subject to changes.
TIOMOS 120/-45A
-45° angle corner cabinet hinge (overlay)

- For -45° angled cabinets
- 120° opening angle
- Convenient depth adjustment via worm gear
- 3-dimensional adjustment with appropriate mounting plate
- Minimum reveals

Available in 2 versions:
- With integrated damper
  (3 adjustable damping levels)
- Without integrated damper

ORDER INFORMATION FOR DRILLING PATTERN 45/9.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>with</td>
<td>without春</td>
</tr>
<tr>
<td>Overlay 1</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>-</td>
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</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

COVER CAPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Cranking</th>
<th>Imprinted/Embossed</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
<td>0/3/9.5/19</td>
<td>On request</td>
<td>F072135500</td>
</tr>
<tr>
<td>Hinge arm cover cap, steel, long, nickel-plated, not imprinted</td>
<td>0/3</td>
<td>On request</td>
<td>F072135504</td>
</tr>
<tr>
<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
<td>0/3/9.5/19</td>
<td>On request</td>
<td>F072135503</td>
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</table>

ACCESSORIES

<table>
<thead>
<tr>
<th>Designation</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tipmatic Pin for wooden and aluminium frame doors</td>
<td>F069068873</td>
</tr>
<tr>
<td>Countersunk wood screw Ø 3.5 x 15 mm</td>
<td>F146073976</td>
</tr>
</tbody>
</table>

Tiomos mounting plates 144
Accessories 150

Technical information 152
Assembly aids 794

Packaging units are not covered in this catalogue; please enquire with your supplier

05-2011
INSTALLATION INFORMATION

All dimensions in millimetres

### Overlay 1

- **Cross mounting plates with fixing distance 37**
- **Linear mounting plates**

<table>
<thead>
<tr>
<th>Mounting plate height</th>
<th>0</th>
<th>2</th>
<th>3</th>
<th>3.5</th>
<th>6</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>60.5</td>
<td>62.5</td>
<td>63.5</td>
<td>64</td>
<td>66.5</td>
</tr>
</tbody>
</table>

Notes:

Minimum reveal for doors with bevelled edges (R = 1 mm) (factory setting).

We recommend a trial fitting.

### DRILLING PATTERNS 45/9.5

- **Screw fixing**
- **Combination drilling pattern for Impresso**

### CUP DIMENSIONS

- **Impresso**
  - Min. 12.6
  - 3 (8)
  - 39 (40.5)
ORDER INFORMATION FOR DRILLING PATTERN 48/9

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>with</td>
<td>without</td>
<td></td>
</tr>
<tr>
<td>Overlay 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>■</td>
<td>-</td>
<td>F028138131</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>■</td>
<td>F045138038</td>
</tr>
</tbody>
</table>

1  Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 48/9

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CUP DIMENSIONS

ORDER INFORMATION FOR DRILLING PATTERN 42/11

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper without spring</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>with</td>
<td>without</td>
<td></td>
</tr>
<tr>
<td>Overlay 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>■</td>
<td>-</td>
<td>F028138375</td>
</tr>
<tr>
<td></td>
<td>-</td>
<td>■</td>
<td>F045138313</td>
</tr>
</tbody>
</table>

1  Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated

DRILLING PATTERNS 42/11

<table>
<thead>
<tr>
<th>Screw fixing</th>
<th>Combination drilling pattern for Impresso</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CUP DIMENSIONS

Tiomos mounting plates 144
Accessories 150

Technical information 152
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## ORDER INFORMATION FOR DRILLING PATTERN 52/5.5

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>Damper without</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td></td>
<td></td>
<td>F028138739</td>
<td>F017139519</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>F045138677</td>
<td>F034139490</td>
</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated  
2 Available on request

### DRILLING PATTERNS 52/5.5

#### Screw fixing

#### Combination drilling pattern for Impresso

### CUP DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>67 (64.5)</th>
<th>40 (40.5)</th>
<th>min. 12.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impresso</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## ORDER INFORMATION FOR DRILLING PATTERN 48/6

<table>
<thead>
<tr>
<th>Door overlay</th>
<th>Damper with</th>
<th>Damper without</th>
<th>Item No.</th>
<th>Impresso without tools</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overlay 1</td>
<td></td>
<td></td>
<td>F028138921</td>
<td>F017139519</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>F045138859</td>
<td>F034139490</td>
</tr>
</tbody>
</table>

1 Cup material: steel, nickel-plated / Arm material: Zamak, nickel-plated  
2 Available on request

### DRILLING PATTERNS 48/6

#### Screw fixing

#### Combination drilling pattern for Impresso

### CUP DIMENSIONS

<table>
<thead>
<tr>
<th></th>
<th>39 (40.5)</th>
<th>39 (40.5)</th>
<th>min. 2.6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Impresso</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### ORDER INFORMATION

**1D CROSS MOUNTING PLATE, 4-POINT FIXING**

**For screw fixing**

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>F058139746</td>
</tr>
<tr>
<td>2</td>
<td>F058139747</td>
</tr>
<tr>
<td>3</td>
<td>F058139748</td>
</tr>
<tr>
<td>3.5</td>
<td>F058139749</td>
</tr>
</tbody>
</table>

- Steel, nickel-plated
- Fixing with wood screws
- With convenient height adjustment (HV) via worm gear

**With pre-assembled Euro screws (13.5 mm)**

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>F058139761</td>
</tr>
<tr>
<td>2</td>
<td>F058139762</td>
</tr>
<tr>
<td>3</td>
<td>F058139763</td>
</tr>
<tr>
<td>3.5</td>
<td>F058139764</td>
</tr>
</tbody>
</table>

- Steel, nickel-plated
- Fixing with pre-assembled Euro screws
- With convenient height adjustment (HV) via worm gear

**1D CROSS MOUNTING PLATE, 4-POINT FIXING, FOR TWIN APPLICATION**

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>F058139863</td>
</tr>
<tr>
<td>2</td>
<td>F058139864</td>
</tr>
<tr>
<td>3</td>
<td>F058139865</td>
</tr>
<tr>
<td>3.5</td>
<td>F058139866</td>
</tr>
</tbody>
</table>

- Steel, nickel-plated
- Fixing with pre-assembled Euro screws
- With convenient height adjustment (HV) via worm gear
- For twin application

**For press fitting**

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>F058139751</td>
</tr>
<tr>
<td>2</td>
<td>F058139752</td>
</tr>
<tr>
<td>3</td>
<td>F058139753</td>
</tr>
<tr>
<td>3.5</td>
<td>F058139754</td>
</tr>
</tbody>
</table>

- Steel, nickel-plated
- Fixing with Ø 10 mm dowels
- With convenient height adjustment (HV) via worm gear
- Do not use a hammer for inserting the mounting plate

(HV) Height adjustment +/-2 mm

(SV) Side adjustment +/-2 mm

(TV) Depth adjustment +3/-2 mm

All adjustments can be carried out independently of each other.
ORDER INFORMATION

**1D CROSS MOUNTING PLATE, 2-POINT SCREW FIXING**

- For screw fixing
- Zamak/steel, nickel-plated
- Fixing with wood screws (3.5 x 15 mm)
- With convenient height adjustment (HV) via worm gear

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>F058139892</td>
</tr>
<tr>
<td>8</td>
<td>F058139886</td>
</tr>
<tr>
<td>9</td>
<td>F058139887</td>
</tr>
<tr>
<td>9.5</td>
<td>F058139888</td>
</tr>
<tr>
<td>12</td>
<td>F058139893</td>
</tr>
<tr>
<td>14</td>
<td>F058139889</td>
</tr>
<tr>
<td>15</td>
<td>F058139890</td>
</tr>
<tr>
<td>15.5</td>
<td>F058139891</td>
</tr>
<tr>
<td>19</td>
<td>F058139894</td>
</tr>
<tr>
<td>21</td>
<td>F058139895</td>
</tr>
</tbody>
</table>

**1D CROSS MOUNTING PLATE, 2-POINT FIXING**

- With pre-assembled Euro screws (13.5 mm)
- Zamak/steel, nickel-plated
- Fixing with pre-assembled Euro screws
- With convenient height adjustment (HV) via worm gear

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>F058139873</td>
</tr>
<tr>
<td>8</td>
<td>F058139880</td>
</tr>
<tr>
<td>9</td>
<td>F058139881</td>
</tr>
<tr>
<td>9.5</td>
<td>F058139882</td>
</tr>
<tr>
<td>12</td>
<td>F058139874</td>
</tr>
<tr>
<td>14</td>
<td>F058139883</td>
</tr>
<tr>
<td>15</td>
<td>F058139884</td>
</tr>
<tr>
<td>15.5</td>
<td>F058139885</td>
</tr>
<tr>
<td>19</td>
<td>F058139875</td>
</tr>
<tr>
<td>21</td>
<td>F058139896</td>
</tr>
</tbody>
</table>

**1D CROSS MOUNTING PLATE, 4-POINT FIXING**

- With pre-assembled Euro screws (13.5 mm)
- Steel, nickel-plated
- Fixing with pre-assembled Euro screws
- With convenient height adjustment (HV) via worm gear

**Note:** available on request!
### ORDER INFORMATION

#### ECO CROSS MOUNTING PLATE, 3-POINT FIXING

**For screw fixing**

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>37/32</td>
<td>-2</td>
</tr>
<tr>
<td>37/32</td>
<td>0</td>
</tr>
<tr>
<td>37/32</td>
<td>2</td>
</tr>
<tr>
<td>37/32</td>
<td>3</td>
</tr>
<tr>
<td>37/32</td>
<td>3.5</td>
</tr>
</tbody>
</table>

- Steel, nickel-plated
- Fixing with wood screws
- Ø 3.5 x 15 mm
- Height adjustment (HV) via slot

#### ECO CROSS MOUNTING PLATE, 3-POINT FIXING

**With pre-assembled pan head Euro screws (13.5 mm)**

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>37/32</td>
<td>-2</td>
</tr>
<tr>
<td>37/32</td>
<td>0</td>
</tr>
<tr>
<td>37/32</td>
<td>2</td>
</tr>
<tr>
<td>37/32</td>
<td>3</td>
</tr>
<tr>
<td>37/32</td>
<td>3.5</td>
</tr>
</tbody>
</table>

- Steel, nickel-plated
- Fixing with pre-assembled pan head Euro screws
- Height adjustment (HV) via slot

#### ECO CROSS MOUNTING PLATE, 3-POINT FIXING, FOR TWIN APPLICATION

**With pre-assembled pan head Euro screws (10.5 mm)**

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>37/32</td>
<td>-2</td>
</tr>
<tr>
<td>37/32</td>
<td>0</td>
</tr>
<tr>
<td>37/32</td>
<td>2</td>
</tr>
<tr>
<td>37/32</td>
<td>3</td>
</tr>
<tr>
<td>37/32</td>
<td>3.5</td>
</tr>
</tbody>
</table>

- Steel, nickel-plated
- Fixing with pre-assembled pan head Euro screws
- Height adjustment (HV) via slot
- For twin application

All adjustments can be carried out independently of each other.

(HV) Height adjustment +/- 2.5 mm
(SV) Side adjustment +/- 2 mm
(TV) Depth adjustment +/- 2 mm
## ORDER INFORMATION

**ECO CROSS MOUNTING PLATE, 3-POINT FIXING**

<table>
<thead>
<tr>
<th>For press fitting</th>
<th>37/32</th>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel, nickel-plated</td>
<td></td>
<td>-2</td>
<td>F058139725</td>
</tr>
<tr>
<td>Fixing with Ø 10 mm dowels</td>
<td>37</td>
<td>0</td>
<td>F058139726</td>
</tr>
<tr>
<td>Height adjustment (HV) via slot</td>
<td>26</td>
<td>2</td>
<td>F058139727</td>
</tr>
<tr>
<td>Do not use a hammer for inserting the mounting plate</td>
<td>12</td>
<td>3</td>
<td>F058139728</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.5</td>
<td>F058139729</td>
</tr>
</tbody>
</table>

**ECO CROSS MOUNTING PLATE, 3-POINT FIXING**

<table>
<thead>
<tr>
<th>With pre-assembled pan head Euro screws (13.5 mm)</th>
<th>28/32</th>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel, nickel-plated</td>
<td></td>
<td>-2</td>
<td>F058139785</td>
</tr>
<tr>
<td>Fixing with pre-assembled pan head Euro screws</td>
<td>28</td>
<td>0</td>
<td>F058139786</td>
</tr>
<tr>
<td>Height adjustment (HV) via slot</td>
<td>35</td>
<td>2</td>
<td>F058139787</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3</td>
<td>F058139788</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.5</td>
<td>F058139789</td>
</tr>
</tbody>
</table>

**1D LINEAR MOUNTING PLATE, 2-POINT FIXING**

<table>
<thead>
<tr>
<th>For screw fixing</th>
<th>20/32</th>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel, nickel-plated</td>
<td></td>
<td>0</td>
<td>F059139701</td>
</tr>
<tr>
<td>Fixing with wood screws Ø 3.5 x 15 mm or with Euro screws Ø 6.3 x 13.5 mm</td>
<td>3.5</td>
<td>2</td>
<td>F059139702</td>
</tr>
<tr>
<td>With convenient height adjustment (HV) via worm gear</td>
<td></td>
<td>3</td>
<td>F059139703</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3.5</td>
<td>F059139704</td>
</tr>
</tbody>
</table>

**1D LINEAR MOUNTING PLATE, 2-POINT FIXING**

<table>
<thead>
<tr>
<th>For Press fixing</th>
<th>20/32</th>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steel, nickel-plated</td>
<td></td>
<td>0</td>
<td>F059139706</td>
</tr>
<tr>
<td>Fixing with Ø 10 mm dowels</td>
<td>20</td>
<td>2</td>
<td>F059139707</td>
</tr>
<tr>
<td>With convenient height adjustment (HV) via worm gear</td>
<td>32</td>
<td>3</td>
<td>F059139708</td>
</tr>
<tr>
<td>Do not use a hammer for inserting the mounting plate</td>
<td>21</td>
<td>3.5</td>
<td>F059139709</td>
</tr>
</tbody>
</table>
ORDER INFORMATION

1D DELTA MOUNTING PLATE FOR FRAME CONSTRUCTIONS, 2-POINT FIXING

For screw fixing 9.5/32 Height Item No.

- Steel, nickel-plated
- Fixing with wood screws Ø 3.5 x 15 mm
- With convenient height adjustment (HV) via worm gear

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>F058139825</td>
</tr>
<tr>
<td>3.5</td>
<td>F058139826</td>
</tr>
<tr>
<td>4.5</td>
<td>F058139827</td>
</tr>
<tr>
<td>5</td>
<td>F058139828</td>
</tr>
</tbody>
</table>

INSET BEADED MOUNTING PLATE FOR FRAME CONSTRUCTIONS, 3-POINT FIXING

For screw fixing 10/32 Height Item No.

- For inset doors
- To be used with hinges with cranking 9.5
- Steel/Zamak, nickel-plated
- Fixing with pan head wood screws
- With convenient height adjustment (HV) via worm gear

<table>
<thead>
<tr>
<th>Height</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>F058139831</td>
</tr>
</tbody>
</table>
### ORDER INFORMATION

**+5° WEDGE**

For screw fixing

- Zamak, nickel-plated
- For placing under cross mounting plates
- Can be stacked (max. 3)

<table>
<thead>
<tr>
<th>Height adjustment</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>F072135757</td>
</tr>
</tbody>
</table>

**-5° WEDGE**

For screw fixing

- Zamak, nickel-plated
- For placing under cross mounting plates
- Cannot be stacked

<table>
<thead>
<tr>
<th>Height adjustment</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>F072135758</td>
</tr>
</tbody>
</table>
## TIOMOS Accessories

### COVER CAPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Cranking</th>
<th>Imprinted/Embossed</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hinge arm cover cap, steel, nickel-plated, not imprinted</td>
<td>0/3/9.5/19</td>
<td>On request</td>
<td>F072135500</td>
</tr>
<tr>
<td>Hinge arm cover cap, steel, long, nickel-plated, not imprinted</td>
<td>0/3</td>
<td>On request</td>
<td>F072135504</td>
</tr>
<tr>
<td>Hinge cup cover cap, steel, nickel-plated, not imprinted</td>
<td>–</td>
<td>On request</td>
<td>F072135503</td>
</tr>
</tbody>
</table>

### OPENING ANGLE REDUCTION CLIPS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>85° opening angle reduction clip</td>
<td>F072135751</td>
</tr>
<tr>
<td>Suitable for all Tiomos 110° and 120° standard hinges. Prevents the door from colliding with kitchen unit fronts or walls (when fitted at corners). Easy fitting without tools. Steel, without nickel-plating</td>
<td></td>
</tr>
<tr>
<td>120° opening angle reduction clip</td>
<td>F072135753</td>
</tr>
<tr>
<td>Suitable for all Tiomos 160° wide-angle hinges. Prevents the door from colliding with kitchen unit fronts or walls (when fitted at corners). Easy fitting without tools. Plastic, black</td>
<td></td>
</tr>
</tbody>
</table>

### FIXING SCREWS, DOWELS

<table>
<thead>
<tr>
<th>Designation</th>
<th>Item No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flat head Euro screw, nickel-plated, Ø 6.3 x 10.5 mm</td>
<td>F072135768</td>
</tr>
<tr>
<td>Flat head Euro screw, nickel-plated, Ø 6.3 x 13.5 mm</td>
<td>F072135309</td>
</tr>
<tr>
<td>Countersunk Euro screw, nickel-plated, Ø 6.3 x 10.5 mm</td>
<td>F072135779</td>
</tr>
<tr>
<td>Countersunk Euro screw, nickel-plated, Ø 6.3 x 13.5 mm</td>
<td>F069135297</td>
</tr>
<tr>
<td>Chipboard screw, nickel-plated, Ø 3.5 x 15 mm</td>
<td>F146073976</td>
</tr>
<tr>
<td>Steel housing fixing screw for aluminium frame hinge, nickel-plated, M 3 x 6 mm</td>
<td>F069073405</td>
</tr>
<tr>
<td>Dowel for hinge cup, plastic PA 6.6, Ø 8 x 13.2 mm</td>
<td>F072135773</td>
</tr>
</tbody>
</table>
### ASSEMBLY INSTRUCTIONS

<table>
<thead>
<tr>
<th>85° opening angle reduction clip</th>
<th>120° opening angle reduction clip</th>
</tr>
</thead>
</table>

![Diagram of 85° opening angle reduction clip](image1)

![Diagram of 120° opening angle reduction clip](image2)

---

All dimensions in millimetres.
The number of hinges is determined by the door height, door weight, quality of the material and the fixing of the cup and mounting plate.

The load and height data refer to 600 mm standard door widths. In case of doubt, the number of hinges should be determined with a trial fitting.

Example:
For doors measuring 2000 x 600 mm and weighing 13 kg we recommend the installation of 4 hinges.

The table refers to hinges with and without integrated damper.

### TOOL-FREE DAMPER ADJUSTMENT

<table>
<thead>
<tr>
<th>Light setting 🅰️</th>
<th>Medium setting (factory setting) 🅱️</th>
<th>Strong setting 🅲️</th>
</tr>
</thead>
</table>
| Adjustment lever points
- towards cabinet wall
Suitable for:
- small, light-weight doors | Adjustment lever points
- downwards when fitted on the left and upwards when fitted on the right
Suitable for:
- standard doors | Adjustment lever points
- into the cabinet
Suitable for:
- large, heavy doors |

The damping force of each hinge can be set individually. A simple lever adjustment is all that is required to increase or reduce the damping force as required.
DOOR ADJUSTMENTS (APPLIES TO ALL TIOMOS HINGES)

<table>
<thead>
<tr>
<th>Description</th>
<th>Side adjustment with limit stop 2 mm</th>
<th>Convenient depth adjustment via worm gear ±3/2 mm</th>
<th>Height adjustment with mounting plate +/- 2 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>The height adjustment option depends on the type of mounting plate. All adjustments can be carried out independently of each other.</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

DOOR REVEAL AND MINIMUM REVEAL

<table>
<thead>
<tr>
<th>Description</th>
<th>Full overlay / overlay door</th>
<th>Half overlay door</th>
<th>Inset door</th>
</tr>
</thead>
<tbody>
<tr>
<td>The reveal is the distance between two doors or between the door and the cabinet side wall. The minimum reveal (F) is the distance required between two doors or between door and side wall so that the door can open without hindrance.</td>
<td>![Image]</td>
<td>![Image]</td>
<td>![Image]</td>
</tr>
</tbody>
</table>

Minimum reveal table

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>Door thickness</th>
<th>Minimum reveal (F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>24</td>
<td>2.4</td>
<td>2.1</td>
</tr>
<tr>
<td>22</td>
<td>1.6</td>
<td>1.6</td>
</tr>
<tr>
<td>21</td>
<td>1.4</td>
<td>1.3</td>
</tr>
<tr>
<td>20</td>
<td>1.1</td>
<td>1.1</td>
</tr>
<tr>
<td>19</td>
<td>0.9</td>
<td>0.9</td>
</tr>
<tr>
<td>18</td>
<td>0.7</td>
<td>0.7</td>
</tr>
<tr>
<td>17</td>
<td>0.6</td>
<td>0.6</td>
</tr>
<tr>
<td>16</td>
<td>0.6</td>
<td>0.6</td>
</tr>
</tbody>
</table>

Achievable reveal with inset door

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>Door reveal</th>
<th>Mounting plate height</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>0.0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>0.5</td>
<td>1.0</td>
<td>2</td>
</tr>
<tr>
<td>1.5</td>
<td>2.0</td>
<td>3</td>
</tr>
<tr>
<td>3.0</td>
<td>4.0</td>
<td>3</td>
</tr>
</tbody>
</table>

Example:

For a 19 mm thick door and a cup distance of 6 mm, the minimum reveal required is 0.9 mm.

Important

The reveals were calculated for doors with a radius of 1 mm! We recommend a trial fitting.
MINIMUM GAP

Description: The minimum gap is the clearance required between the front edge of the cabinet and the closed door so that the door can open without hindrance. The factory setting of the gap is 1.5 mm.

Example: For a 17 mm thick door and a cup distance of 6 mm, the minimum gap is 1.0 mm.

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.2</td>
<td>2.1</td>
</tr>
<tr>
<td>20</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
</tr>
<tr>
<td>21</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.2</td>
</tr>
<tr>
<td>22</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.5</td>
</tr>
</tbody>
</table>

Cup distance (TA) is the distance between the edge of the door and the edge of the cup hole.

Door thickness | Cup distance | 1.0 | 1.0 | 1.0 | 1.0 | 1.2 | 2.1 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td>1.0</td>
<td></td>
</tr>
</tbody>
</table>

MINIMUM GAP

DOOR OVERLAY

Description: The door overlay (A) is that part of the side wall or frame which is covered by the door.

Example: For a hinge with cranking 3, a mounting plate height 2 and a cup distance of 4 mm, the door overlay is 14 mm.

<table>
<thead>
<tr>
<th>Cup distance</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.0</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>15.0</td>
<td>3</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17.0</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>19.0</td>
<td>3</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>21.0</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>23.0</td>
<td>3</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Cup distance | Door overlay | 3 | 4 | 5 | 6 | 7 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>18.0</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.0</td>
<td>3</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22.0</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24.0</td>
<td>3</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Door overlay | Mounting plate height | 3 | 4 | 5 | 6 | 7 |
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>16.0</td>
<td>3</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>18.0</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>20.0</td>
<td>3</td>
<td>5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>22.0</td>
<td>2</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

DOOR PROTRUSION

Description: Door protrusion (TES) occurs when the door is opened and varies depending on the type of hinge and application.

It is shown on each catalogue page and refers to the factory setting with the respective mounting plate shown. It can be altered by using a different mounting plate height and by changing the side adjustment.
OPTIONS FOR CHANGING THE DOOR OVERLAY

<table>
<thead>
<tr>
<th>By selecting the cranking</th>
<th>By using a mounting plate with a different height</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Full overlay (cranking 0)</strong></td>
<td><strong>Full overlay</strong></td>
</tr>
<tr>
<td>The door overlay (A) is the cup overlay (TAS/factory setting) plus the cup distance (TA).</td>
<td>Use a hinge with cranking 0 and mounting plate height 0.</td>
</tr>
<tr>
<td>The dimensions are shown in a table on the respective catalogue page.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overlay (cranking 3)</th>
<th>Overlay</th>
</tr>
</thead>
<tbody>
<tr>
<td>The door overlay (A) is the cup overlay (TAS/factory setting) plus the cup distance (TA).</td>
<td>Use a hinge with cranking 9.5.</td>
</tr>
<tr>
<td>The dimensions are shown in a table on the respective catalogue page.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Half overlay (cranking 9.5)</th>
<th>Half overlay</th>
</tr>
</thead>
<tbody>
<tr>
<td>The door overlay (A) is the cup overlay (TAS/factory setting) plus the cup distance (TA).</td>
<td>Use a hinge with cranking 0, mounting plate height 21.</td>
</tr>
<tr>
<td>The dimensions are shown in a table on the respective catalogue page.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inset (cranking 19)</th>
<th>Inset</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is no door overlay.</td>
<td>Use a hinge with cranking 0 and Mounting plate height 2 and spacer plate 19.</td>
</tr>
<tr>
<td>The minimum reveal (F) between the side of the cabinet and the door depends on the mounting plate height and the cup distance.</td>
<td></td>
</tr>
<tr>
<td>The dimensions are shown in a table on the respective catalogue page.</td>
<td></td>
</tr>
</tbody>
</table>
## TEST CRITERIA FOR HINGES

### Functional test

<table>
<thead>
<tr>
<th>Static load - vertical</th>
<th>Static load - horizontal</th>
<th>Endurance test</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional load: 20 kg</td>
<td>Force: 40 N</td>
<td>Opening angle: max. -5°</td>
</tr>
<tr>
<td>Opening angle: max. -10°</td>
<td>Number: 10</td>
<td>Open and close movements: 100,000</td>
</tr>
<tr>
<td>Number: 10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Overload testing

<table>
<thead>
<tr>
<th>Vertical</th>
<th>Horizontal</th>
<th>Test door</th>
</tr>
</thead>
<tbody>
<tr>
<td>Additional load: 30 kg</td>
<td>Force: 80 N</td>
<td>Weight approx. 5.2 kg</td>
</tr>
<tr>
<td>Opening angle: max. -10°</td>
<td>Number: 10</td>
<td></td>
</tr>
<tr>
<td>Number: 10</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Salt spray and humidity test

Based on DIN ISO 9227 and DIN 6270-2

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**NOTE:** Packaging units are not covered in this catalogue; please enquire with your supplier.