argenta® invisible hinges
Content

Invisible neo ........................................... 4
Invisible ................................................ 12
Invisible Pro XS4 .................................. 20
Pivotica Pro .......................................... 26
Pivotica ................................................ 32
Magnotica ............................................ 36
To strive for an aesthetic design for both rotating and pivoting doors the hinges should be concealed so that the door lines up with the wall. This flush effect can be achieved thanks to the patented argenta invisible hinges. The hinges are completely concealed when the door is closed, while the door in open position on the crosscut side, will only reveal an elegant and pure design hinge. The simplified installation and adjustment will result in a quick and easy assembly.
Invisible neo is the invisible hinge design par excellence. Even when the rotating interior door is open, not a single screw is visible. The hinges, available in the formats S-5, M-6 and L-7, can be mounted and adjusted quickly in three dimensions. This can be done by just one person, and the door does not need to be removed. Thanks to the simplified height adjustment, not even a wedge is needed any more. They can be used for interior doors that open up to 180° and are suitable for both left-opening and right-opening doors.
What are the benefits?

• **EASE OF USE**
  - Universal: for left and right-opening doors
  - “Easy-hook”: installation and 3D adjustment by one person
  - 3D adjustable (height, width, and depth) without taking the door off
  - Extra simplified height adjustment: no wedge required
  - 180° opening angle

• **DURABILITY AND SAFETY**
  - Open and shutting movement cycle tests (min. 200,000)
  - Fingers are protected because of the minimal space between the door and the frame
  - Available in fireproof version of 30 or 60 minutes
  - Fully mounted on plastic washers

• **AESTHETICS**
  - Pure and qualitative design
  - No visible screws
  - 3 sizes: S-5, M-6, L-7
  - Available in different finishes

---

**Weight table**

<table>
<thead>
<tr>
<th>Type hinge</th>
<th>Invisible neo S-5</th>
<th>Invisible neo M-6</th>
<th>Invisible neo L-7</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Max. door weight</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>according to door width</td>
<td>730 mm</td>
<td>75 kg</td>
<td>95 kg</td>
</tr>
<tr>
<td></td>
<td>830 mm</td>
<td>70 kg</td>
<td>90 kg</td>
</tr>
<tr>
<td></td>
<td>930 mm</td>
<td>65 kg</td>
<td>85 kg</td>
</tr>
<tr>
<td></td>
<td>1030 mm</td>
<td>60 kg</td>
<td>80 kg</td>
</tr>
</tbody>
</table>
### Technical features

<table>
<thead>
<tr>
<th>Material</th>
<th>Invisible neo S-5</th>
<th>Invisible neo M-6</th>
<th>Invisible neo L-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Door thickness</td>
<td>min. 33 mm</td>
<td>min. 36 mm</td>
<td>min. 40 mm</td>
</tr>
<tr>
<td>Door thickness with max. front panel</td>
<td>35 mm</td>
<td>40 mm</td>
<td>46 mm</td>
</tr>
<tr>
<td>Overall depth</td>
<td>26,5 mm (frame) / 30 mm (door)</td>
<td>30 mm (frame) / 32 mm (door)</td>
<td>33 mm (frame) / 36 mm (door)</td>
</tr>
<tr>
<td>Dimensions (L x W)</td>
<td>120 x 25 mm</td>
<td>140 x 28 mm</td>
<td>170 x 32 mm</td>
</tr>
<tr>
<td>Installation and adjustment</td>
<td>Easy-Hook</td>
<td>Easy-Hook</td>
<td>Easy-Hook</td>
</tr>
<tr>
<td>Height adjustment¹</td>
<td>-2.5 / +2.5 mm</td>
<td>-3.0 / +3.0 mm</td>
<td>-3.0 / +3.0 mm</td>
</tr>
<tr>
<td>Width adjustment¹</td>
<td>-3.0 / +4.0 mm</td>
<td>-3.0 / +4.0 mm</td>
<td>-3.0 / +4.0 mm</td>
</tr>
<tr>
<td>Pressure¹ (depth adjustment)</td>
<td>-1.0 / +1.0 mm</td>
<td>-1.5 / +1.5 mm</td>
<td>-1.5 / +1.5 mm</td>
</tr>
<tr>
<td>Max. front panel (cladding) size</td>
<td>5 mm</td>
<td>6 mm</td>
<td>7 mm</td>
</tr>
<tr>
<td>Fire resistant²</td>
<td>E30, EI₂30, EI30, EW30</td>
<td>E60, EI₆0, EI₆0, EW₆0 ²</td>
<td>E60, EI₆0, EI₆0, EW₆0</td>
</tr>
<tr>
<td>CE marking</td>
<td>2 7 3 1 1 4 0 10</td>
<td>3 7 4 1 1 4 0 11a</td>
<td>4 5 5 1 1 4 1 12a</td>
</tr>
<tr>
<td>Screw dia.</td>
<td>SPAX - Z2 dia: max. 4,5</td>
<td>SPAX - Z2 dia: max. 5</td>
<td>SPAX - Z2 dia: max. 5</td>
</tr>
</tbody>
</table>

¹ = neutral position factory setting: standard of a 2 mm door margin.
² = fire resistant according to standard EN1634-1: 2008 and classified according to EN13501-2:2007 for use of wooden door with wooden doorframe, and for wooden door with stainless steel frame.
* = Only valid for the Belgian market, for other markets applies E30, EI₃0, EI₃0, EW₃0.

### Technical drawings

[Diagram of neo S-5]
[Diagram of neo M-6]
[Diagram of neo L-7]
Accessories

• Universal milling template
Argent Alu has developed the universal argenta milling template for making the correct cut-outs, for all argenta invisible fittings as well as the normal argenta hinges, by quickly and easily using a router.
A basic set* consists of:

A. 3 x plastic filler plates**
B. 3 x plastic base plates
C. 2 x plastic stop blocks

* Suitable for doors with 3 hinges: For doors with 4 hinges, additional 2 x black plastic filler plates + 2 x light grey plastic base plates must be ordered.
** For each type of hinge there is a specific black plastic template (filler plate).

• Fixation plate and spacer rings
If a wooden door frame is not thick enough to screw in a concealed hinge securely, securing plates with spacer rings provide a solution. The plate is placed on the back of the wooden door frame and the hinge on the front of the door frame. The spacer rings fill the remaining distance between the securing plate and the hinge. This is necessary to avoid damaging the door frame when the hinge is screwed on. Use a suitable combination of colors to get the required spacing.
- White 1 mm
- Green 1.5 mm
- Yellow 2 mm
- Red 3 mm

• Connecting fitting
An argenta invisible neo can also be used in combination with steel or stainless steel door frames. To this end, Argent Alu includes a suitably sized, stainless steel connecting fitting for securing the invisible hinge.

• Intumescent kit
For non-residential buildings such as offices as well as residential buildings, building regulations lay down specific requirements regarding fire safety. To comply with these regulations, an argenta invisible neo hinge must be combined with an intumescent kit. Argent Alu supplies intumescent kits for 30 or 60 minutes that are tested and approved (see page 9) according to European standards.
The standard amongst invisible rotating door hinges, this hinge is symmetrical and can be used for both left-opening and right-opening rotating doors. When the door is closed, no hinge is visible. The simple installation and 3D adjustment for height, width and depth ensure quick assembly of rotating doors that can open up to 180°. The compact dimensions and visible screws both contribute to the 'technical' appearance of this versatile hinge.
What are the benefits?

- **EASE OF USE**
  - Universal: for left and right-opening doors
  - 3D adjustable (height, width and depth)
  - Compact dimensions
  - 180° opening angle

- **DURABILITY AND SAFETY**
  - Open and shutting movement cycle tests (min. 200,000)
  - Fingers are protected because of the minimal space between the door and the frame
  - Fully mounted on plastic washers

- **AESTHETICS**
  - Technical and innovative look
  - 2 sizes: small and medium

---

**Weight table**

<table>
<thead>
<tr>
<th>Type hinge</th>
<th>Invisible small</th>
<th>Invisible medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of hinges</td>
<td>2</td>
<td>3</td>
</tr>
<tr>
<td>Max. door weight according to door width</td>
<td></td>
<td></td>
</tr>
<tr>
<td>730 mm</td>
<td>55 kg</td>
<td>65 kg</td>
</tr>
<tr>
<td>830 mm</td>
<td>50 kg</td>
<td>60 kg</td>
</tr>
<tr>
<td>930 mm</td>
<td>45 kg</td>
<td>55 kg</td>
</tr>
<tr>
<td>1030 mm</td>
<td>40 kg</td>
<td>50 kg</td>
</tr>
</tbody>
</table>
**Technical features**

<table>
<thead>
<tr>
<th></th>
<th>Invisible small</th>
<th>Invisible medium</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Zamak</td>
<td>As per table</td>
</tr>
<tr>
<td>Door thickness</td>
<td>min. 31 mm</td>
<td>min. 37 mm</td>
</tr>
<tr>
<td>Door thickness with max. front panel</td>
<td>31 mm</td>
<td>39 mm</td>
</tr>
<tr>
<td>Overall depth</td>
<td>34 mm (frame) / 32 mm (door)</td>
<td>35.5 mm (frame) / 36.5 mm (door)</td>
</tr>
<tr>
<td>Dimensions (L x W)</td>
<td>95 x 23 mm</td>
<td>111 x 29 mm</td>
</tr>
<tr>
<td>Height adjustment ¹</td>
<td>-1,5 / +1,5 mm</td>
<td>-</td>
</tr>
<tr>
<td>Width adjustment ¹</td>
<td>-2,5 / +2,5 mm</td>
<td>-</td>
</tr>
<tr>
<td>Pressure ¹ (depth adjustment)</td>
<td>-1,5 / +1,5 mm</td>
<td>-</td>
</tr>
<tr>
<td>Max. front panel (cladding) size</td>
<td>4 mm</td>
<td>5 mm</td>
</tr>
<tr>
<td>Fire resistant ²</td>
<td>-</td>
<td>E30, EI30, EI30, EW30</td>
</tr>
<tr>
<td>CE marking</td>
<td>-</td>
<td>2 7 2 1 1 3 0 7</td>
</tr>
<tr>
<td>Type screw dia.</td>
<td>SPAX - Z2 dia: max. 4,5</td>
<td>SPAX - Z2 dia: max. 5</td>
</tr>
</tbody>
</table>

¹ = neutral position factory setting: standard of a 2 mm door margin
² = fire resistant according to standard EN1634-1: 2008 and classified according to EN13501-2:2007 for use of wooden door with wooden doorframe, and for wooden door with stainless steel frame.

**Technical drawings**

- **Small**
  - Frame: Max. 4 mm
  - Door: Max. 4 mm
  - Frame 34 / Door 32

- **Medium**
  - Frame: Max. 5 mm
  - Door: Max. 5 mm
  - Frame 35.5 / Door 36.5
Accessories

• Universal milling template
Argent Alu has developed the universal argenta milling template for making the correct cut-outs, for all argenta invisible fittings as well as the normal argenta hinges, by quickly and easily using a router.
A basic set * consists of:

A. 3 x plastic filler plates**
B. 3 x plastic base plates
C. 2 x plastic stop blocks

* suitable for doors with 3 hinges: For doors with 4 hinges, additional 2 x black plastic filler plates + 2 x light grey plastic base plates must be ordered.
** for each type of hinge there is a specific black plastic template (filler plate).

• Fixation plate and spacer rings
If a wooden door frame is not thick enough to screw in a concealed hinge securely, securing plates with spacer rings provide a solution. The plate is placed on the back of the wooden door frame and the hinge on the front of the door frame. The spacer rings fill the remaining distance between the securing plate and the hinge. This is necessary to avoid damaging the door frame when the hinge is screwed on. Use a suitable combination of colours to get the required spacing.

- White 1 mm
- Green 1.5 mm
- Yellow 2 mm
- Red 3 mm

• Connecting fitting
An argenta invisible can also be used in combination with steel or stainless steel door frames. To this end, Argent Alu includes a suitably sized, stainless steel connecting fitting for securing the invisible hinge.

• Intumescent kit
For non-residential buildings such as offices as well as residential buildings, building regulations lay down specific requirements regarding fire safety. To comply with these regulations, an argenta invisible hinge must be combined with an intumescent kit. Argent Alu supplies intumescent kits for 30 minutes that are tested and approved (see page 17) according to European standards.
ARGENTA® INVISIBLE PRO XS-4

Bulk buyers can also profit from the invisible pro XS-4 hinges: just as invisible, compact and easily adjusted as the invisible neo version, but only available in bulk. There is also not a screw in sight on rotating doors with an opening angle of 180°. The remarkable installation depth of only 23 mm contributes to its design. For universal use in both left-opening and right-opening doors, these hinges can also easily be placed and adjusted by one person.
What are the benefits?

• **EASE OF USE**
  - Universal: for left and right-opening doors
  - 180° opening angle
  - “Easy-hook”: installation and adjustment by one person
  - Simplified adjustability (height and width)
  - Compact dimensions: only 23 mm built-in depth

• **DURABILITY AND SAFETY**
  - Open and shutting movement cycle tests (min. 200,000)
  - Fingers are protected because of the minimal space between the door and the frame
  - Fully mounted on plastic washers

• **AESTHETIC**
  - No visible screws
  - Synthetic covers are available in 3 different colors

### Weight Table

<table>
<thead>
<tr>
<th>Type hinge</th>
<th>Invisible Pro XS-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of hinges</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Max. door weight</td>
<td></td>
</tr>
<tr>
<td>according to door width</td>
<td>730 mm</td>
</tr>
<tr>
<td></td>
<td>830 mm</td>
</tr>
<tr>
<td></td>
<td>930 mm</td>
</tr>
<tr>
<td></td>
<td>1030 mm</td>
</tr>
</tbody>
</table>

**Technical features**

<table>
<thead>
<tr>
<th>Invisible Pro XS-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
</tr>
<tr>
<td>Finishes</td>
</tr>
<tr>
<td>Door thickness</td>
</tr>
<tr>
<td>Door thickness with max. front panel</td>
</tr>
<tr>
<td>Overall depth</td>
</tr>
<tr>
<td>Dimensions (L x W)</td>
</tr>
<tr>
<td>Height adjustment</td>
</tr>
<tr>
<td>Width adjustment</td>
</tr>
<tr>
<td>Max. front panel (cladding) size</td>
</tr>
<tr>
<td>Type screw dia.</td>
</tr>
</tbody>
</table>

1 = neutral position factory setting: standard of a 2 mm door margin
The choice of pivoting interior doors is mainly a matter of taste. Fitting flush to the wall, the appearance is appealing even when the pivoting door is open. Thanks to their compact size, pivoting hinges can even be used for floor-to-ceiling doors. The fact that the pivot point can be chosen at will, making room for creativity, especially with the fact that no door frame is needed and the door can therefore be placed perfectly flush with the wall. With the hinge system integrated into the doorleaf, this always represents a perfect solution both for new buildings as well as refurbishments, also in combination with underfloor heating.
Thanks to the argenta pivotica Pro, the door can be opened in both directions and has a holding position at 90°. Due to the active dampers, the door always closes perfectly to zero so it remains in line with the wall. This keeps the sleek design of the wall guaranteed. Finally the argenta pivotica Pro meets to the EN 1154 standard for door closers. The argenta pivotica Pro is also available in a 30 minutes fire rated version with special a intumescent. For doors taller than 2500 mm we recommend using an argenta magnotica (contactless magnetic door closer – see page 36).

What are the benefits?

• EASE OF USE
  - Easy installation
  - Opening angle in both directions up to 150°
  - Fixed settings at 90° in both directions
  - Free choice of rotating position (hinge point)
  - Adjustable outlining (straight outlining)
  - Adjustable bottom plate:
    - Width adjustment: -3 / +3 mm
    - Depth adjustment: -3 / +3 mm
    - Alignment: -4 / +4°

• DURABILITY AND SAFETY
  - Child-friendly (easy to open)
  - Meets to the EN 1154 standard for door closers

• AESTHETICS
  - Invisible
  - Available for floor-to-ceiling-height doors
  - Invisible door closer

### Technical features

<table>
<thead>
<tr>
<th></th>
<th>Pivotica Pro</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Aluminum + stainless steel</td>
</tr>
<tr>
<td>Finishes</td>
<td>Brushed stainless steel</td>
</tr>
<tr>
<td>Door thickness</td>
<td>min. 40 mm</td>
</tr>
<tr>
<td>Door weight</td>
<td>max. 100 kg</td>
</tr>
<tr>
<td>Door width</td>
<td>2000 mm *</td>
</tr>
<tr>
<td>Door height</td>
<td>3000 mm</td>
</tr>
</tbody>
</table>

* = Central position of the hinge
Technical drawings

UPPER PART DOOR OPENING

UPPER PART DOOR LEAF

LOWER PART FLOOR

LOWER PART DOOR LEAF – CORNER POSITION

LOWER PART DOOR LEAF – CENTRAL POSITION
The argenta pivotica is thanks to its compact size not only easy to mount in the door, the pivot hinge can also be installed in pivoting floor-to-ceiling-height doors. The innovative pivot hinge even allows for the pivot point on the door to be chosen freely (at a minimum of 40 mm from the side of the door); this way, wide doors can for instance rotate from the middle. The argenta pivotica is suitable for both left and right doors. Thanks to the argenta pivotica architects can use spaces and walls creatively, seeing how the pivot hinge does not require a door frame and the door can be aligned perfectly with the wall. All parts of this pivot hinge are rust-resistant. The argenta pivotica is suitable for indoor use of both modern residential buildings as well as public buildings and offices. The argenta pivotica is preferably used in combination with the argenta magnotica (see page 36), a contactless doormagnet.

What are the benefits?

**• EASE OF USE**
- Easy installation
- Opening angle in both directions up to 150°
- Fixed settings at 90° in both directions
- Free choice of rotating position (hinge point)
- Adjustable outlining (straight outlining)
- Pivot system to be mounted in the doorpanel and not (as usual) in the floor or ceiling

**• SAFETY**
- Child-friendly (easy to open)

**• AESTHETIC**
- Invisible
- Available for floor-to-ceiling-height doors
- Invisible door closer

---

**Technical features**

<table>
<thead>
<tr>
<th></th>
<th>Pivotica</th>
</tr>
</thead>
<tbody>
<tr>
<td>Material</td>
<td>Aluminum + stainless steel</td>
</tr>
<tr>
<td>Finishes</td>
<td>Brushed Stainless Steel</td>
</tr>
<tr>
<td>Door thickness</td>
<td>min. 40 mm</td>
</tr>
<tr>
<td>Door weight</td>
<td>max. 45 kg</td>
</tr>
<tr>
<td>Door width</td>
<td>1500 mm</td>
</tr>
<tr>
<td>Door height</td>
<td>3000 mm</td>
</tr>
</tbody>
</table>
Technical drawings

UPPER PART DOOR OPENING

UPPER PART DOOR LEAF

LOWER PART DOOR LEAF

LOWER PART FLOOR
ARGENTA® MAGNOTICA

The magnotica is a magnetic and contactless door closer which holds interior doors shut without the need for a door handle or latch. Because there are no moving parts, the door can be opened and closed completely without making any noise.
The argenta magnotica can be installed on any normal wooden door and frame and is also specially designed for easy installation in the argenta invisidoor DL, the concealed aluminum frame for interior doors. Because the door is quick and easy to open without the need for a door handle, this magnetic closure is particularly suitable for doors to walk-in closets or storerooms.

The argenta magnotica is also ideal for use in combination with the argenta pivotica, the unique compact pivot system from argenta. The argenta magnotica can be used either vertically (on the front edge of the door, preferred, or horizontally (top of the door).

**What are the benefits?**

- No moving parts to wear out
- Door can be opened and closed noiselessly without a door handle or latch
- Doors are quick and easy to open and close
- Available in white, black or grey
- Perfect integration in the argenta invisidoor DL possible
- Ideal for doors to walk-in closets or storerooms
- Perfect for keeping pivoting doors in their closed position
- Thanks to the extra cover plate the screws are concealed

**Technical drawings**

Milling dimensions: frame = doorpanel
Argent Alu: THE reference for opening doors

Founded in 1909, Argenta Alu nv – more commonly known by the brand name argenta® – has been developing and producing hinges for interior doors for over 100 years.

Argent Alu can offer you a wide range of door hardware thanks to a persistent vertical integration. Besides its own development division and test laboratory Argent Alu also manages other processes in-house such as: mold manufacturing, plastic injection molding, production, aluminium processing, anodization, powder coating and assembly. Our local sales teams assist our distributors where possible and follow market developments closely.

Our wide selection of products includes:
- Concealed hinges invisible
- Invisible door frame invisidoor
- Hinges in all sizes, colours and models (both modern and country style)
- Indoor sliding door fittings argenta slide for wooden and glass doors
- A wide selection of window and shutter fittings

nv Argent Alu sa | Bankstraat 2, 9770 Kruishoutem - Belgium
T +32 (0)9 333 99 99 | F +32 (0)9 333 99 90 | info@argentalu.com | www.argentalu.com