



# Hahn Türband 4 AT



For representative commercial and functional doors

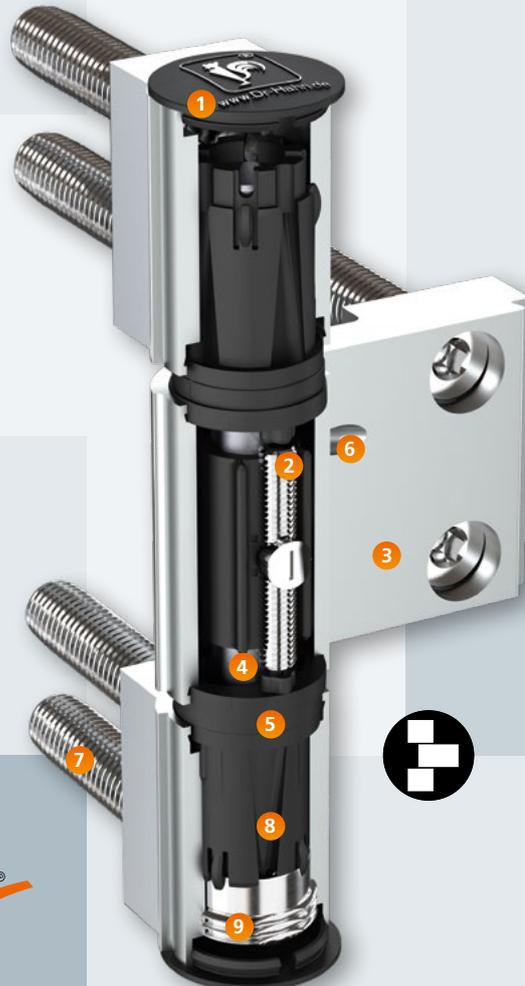


**NEW!**

Now also suitable  
for narrow sections



**NEW!** Half measure 0





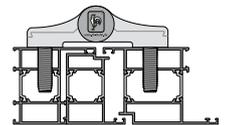
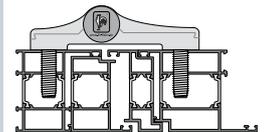
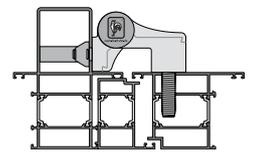
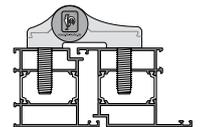
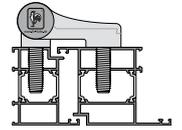
# Hahn Türband 4 AT

Screw-on hinge  
with a roll look  
for metal doors

- 1 **Dimensionally stable and colour-fast PVC parts** with a particularly good fit
- 2 **Horizontal adjustment** infinitely variable up to  $\pm 2.5$  mm – designed for one-person implementation
- 3 **Solid hinges** with elegant design – appear light on the door
- 4 **Continuous bearing pins** made of stainless steel – for high hinge stability
- 5 **Bearing point maintenance-free** – no lubrication necessary
- 6 **Covers that snap in place** – with lock screw for outward-opening doors
- 7 **Innovative mounting** with Hahn anchor screw – for quicker processing
- 8 **Adjustment of sealing pressure**  $\pm 0.5$  mm with door leaf installed
- 9 **Simple, variable height adjustment**  $+3/-2$  mm – without lifting or removing the door

## Further advantages:

- Available for all major aluminium sections
- A variety of possible combinations and mounting options for inward and outward opening doors, even for reversible profile and corner post constructions.
- Variations for doors with excessive overall width and doors with narrow door frames
- Capable of supporting up to 220 kg (three-piece) or 180 kg (two-piece) – depending on the design of the profile sections and installation situation
- Special versions for intrusion-resistant doors
- Adjustable in six directions
- Surfaces in anodised and all RAL colours



**NEW!**

**Half measure 0 ...**



**... for slender frames**

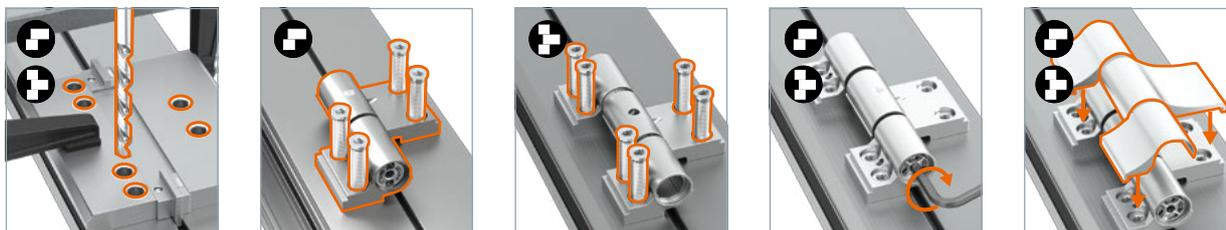
A new feature in the series is the half measure 0 where the frame hinge part has been reduced to the minimum space required. This new variation is used especially in situations where there is only a small amount of space on the frame side. The screw connection takes place through the hinge part. Regardless of whether anchor screw, screw anchor or fastening plate, all available Hahn fasteners can be used for installation.

**Improved:  
adjustment of sealing pressure**

To adjust the sealing pressure, an additional part was also required in the old three-piece version. With regard to Türband 4 AT, all adjustments are integrated in the hinge. The installation technician only needs his standard tools.

A setscrew is sufficient for preventing the bearing pins from unscrewing. This ensures that a misalignment of the pin, which occasionally occurred in practice, is now a thing of the past. The changed length of the setscrew is one detail of the optimisation. As a result, the engagement in the pin has been additionally improved.

## Installation instructions



### Improved: horizontal adjustment

The horizontal adjustment of the door leaf is the most common type of adjustment implemented after adjusting the door leaf to the structural conditions in terms of height.

Thanks to the sophisticated distribution of the forces occurring, Türband 4 AT is significantly more stable at the hinge after the adjustment. The alignment has become smoother, even with high loads. When it comes to two-piece implementations, one person is able to move doors weighing up to 180 kg without any difficulties and up to 220 kg for the three-piece variation. Supporting the door leaf is advantageous, but not essential.

## Adjustment instructions



## Improved: tight fit of PVC caps

PVC tends to expand or contract when exposed to extreme weather conditions. As a result, the tight fit of the PVC caps, which are used to protect the inside of the hinge from dirt and moisture, was not always given.

Türband 4 AT has been given a new geometry which ensures an especially tight fit of the caps. To ensure that they are easy to remove on site if necessary, a recess was provided for the engagement of a small screwdriver.

In addition to that, the cap used on top and bottom of the hinge has the same design, eliminating any possible confusion.



### Tested to suit high standards

Türband 4 AT has achieved the hinge class 14 in tests for use in the mandated area (smoke control, fire and escape route doors). As a result, it is possible to use it on doors with especially high demands. Likewise, the new Türband 4 AT has successfully passed the demanding burglar resistance test in accordance with DIN EN 1627. The standard focuses on testing the resistance of various elements with regard to their opening types in 7 classes. Türband 4 AT fulfils in this context the test category RC 3.

The new Hahn Türband 4 AT has received the three-star certificate from the Dutch testing inspectorate SKG which is recognised all over Europe. This certificate confirms testing and approval of aluminium doors and their effectiveness to prevent burglary.

For explanations of the table, please visit [www.dr-hahn.com](http://www.dr-hahn.com)

								
	Service classes	Durability	Weight of test door	Fire resistance	Security	Corrosion resistance	Intrusion protection	Hinge class
	4	7	7	0	1	0/4 (5)*	1	14
	4	7	7	1	1	0/4 (5)*	1	14

Suited for installation on doors placed along emergency escape routes.

\*Corrosion class 5 in accordance with EN 1670:2007 for colour variants "elektrobraun" MATTE and RAL 9016

6 GL IG powder, Class 0 = uncoated/non-anodised



**Improved:  
all Hahn fasteners may be used**

Türband 4 AT has as standard two pivot points, 20 and 36 mm. Other pivot points as special versions are no longer created by furring the hinge plate, but rather consist of a one-piece hinge part.

Türband 4 AT is always supplied with fasteners. Anchor screws developed by Dr. Hahn and available in four lengths and two different material versions are used by default. There are also fastening plates in widths of 15 mm and 21 mm for uninsulated profiles.

When dealing with installation situations involving material combinations, e.g. wood-aluminium, the screw anchor is the fastener of choice. In other words, the guiding principle "The perfect solution for every situation" applies here as well.

**Note:**

Hahn Türband 4 AT is available with pivots of up to 36 mm. Measures undertaken by door installers to achieve greater pivot points terminate the manufacturer's liability.



**Improved:  
Suitable for fire doors  
as of the very first day**

The standard version of Türband 4 AT managed to prevail in an initial fire test that lasted well over 30 minutes.

Thus, it was demonstrated that the new version is suited for use on smoke control and fire doors.



**Improved:  
All colours available quickly**

When it comes to the colour diversity of the profile sections, there are hardly any limits. Dr. Hahn is also following this trend. All RAL colours and different anodised tones are offered in highest quality for all hinges of this series. State-of-the-art technology has been installed in our factories to be able to serve the market quickly with any custom colours. All customer requests can be fulfilled within just a few days.





# Hahn Türband 4 AT

Universal hinge  
for metal doors

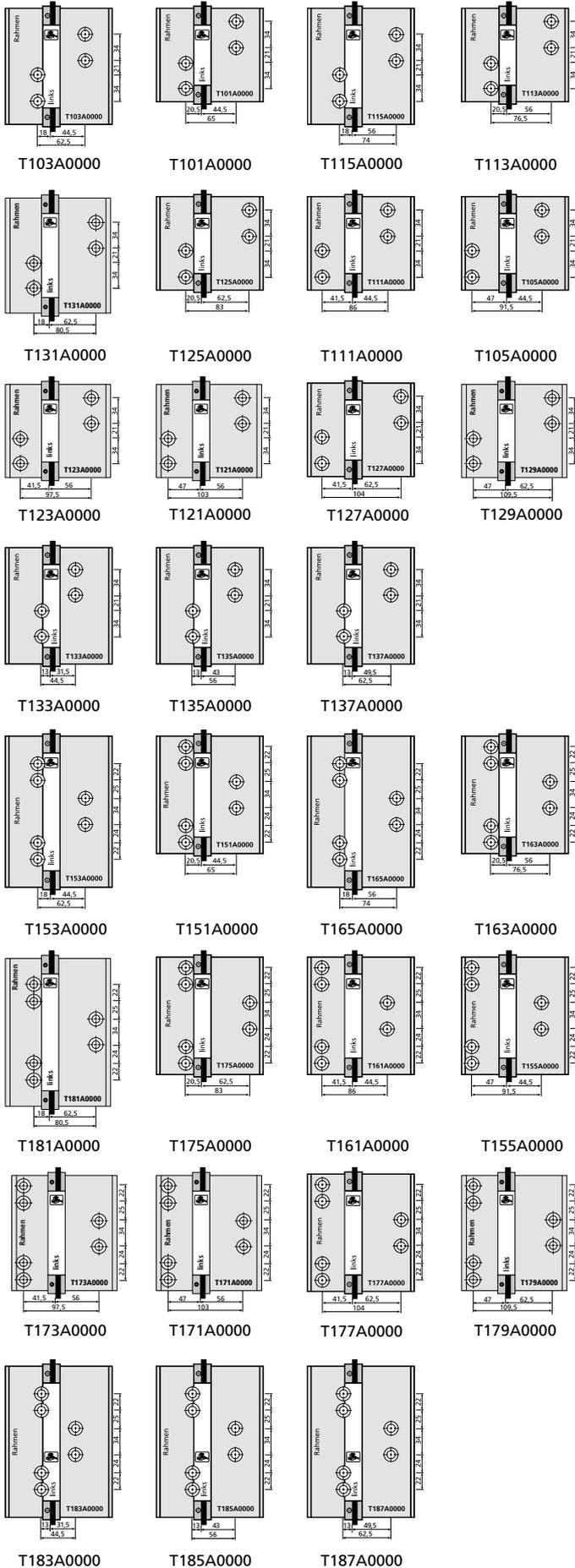


## SYSTEMS/APPLICATION

- **Material:**  
Constructed of extruded aluminium
- **Fastening method:**  
Fastening using anchor screws, screw anchors or mounting plates
- **Versions:**  
Two pivots: 20 mm and 36 mm  
Half measure 0: Pivot point 22 mm  
Other pivot points available on request
- **Load capacity:**  
Depending on profile section design, max. 180 kg (two-piece), or 220 kg (three-piece)
- **Doors open up to 180°**
- **Adjustability:**  
Adjustable in six directions with door leaf mounted
  - Height adjustment using integrated lifting and lowering spindle, +3 mm, –2 mm
  - Horizontal adjustment, variable  $\pm 2.5$  mm
  - Sealing pressure  $\pm 0.5$  mm
- **Certificate:**  
CE certification according to EN1935:2002  
Hinge class 14, SKG 3 stars
- **Colours:**  
Hinges available in anodised and RAL colours
- **Bearing point, maintenance-free**



# Drilling jigs



# General suggestions for hinge placement

The following design fundamentals are authoritative for hinge placement: size and weight of door, wall thickness of section, frame design, how the door opens, type of loading, hinge mounting. This information is essential for a precise design calculation.

	Object	Max. door size [mm]	Max. door weigh [kg]	Upper door closer OTS	Swing door drive mechanism
Normal usage	Detached house	1250 x 2000	160		
	Detached house	1250 x 2000	180		
	Building with multiple dwellings	1250 x 2000	160		
	Building with multiple dwellings	1250 x 2000	180		
	Building with multiple dwellings	1250 x 2000	160	■	
	Building with multiple dwellings	1250 x 2000	180	■	
Heavy usage	Hospital, school, ...	1250 x 2000	160	■	
	Hospital, school, ...	1250 x 2000	180		
	Hospital, school, ...	1250 x 2000	160		■
	Hospital, school, ...	1250 x 2000	180		■
	Hospital, school, ...	1250 x 2000	160		
	Hospital, school, ...	1250 x 2000	180		

These general hinge placement suggestions take into account frame sections of normal width (approx. 45 mm) with wall thicknesses of approx. 2 mm. Since the individual door frame systems vary significantly in terms of projected widths and wall thicknesses and the mounting of hinges to the frame play a major role, we recommend that you contact our free design calculation service in case of doubts. To determine the necessary placement of hinges, we need the following information. Request our questionnaire on hinge placement.

**Attention:** All statements and calculations relate exclusively to Original Hahn hinges and take into account their specific characteristics.

## Versions for installation with the Hahn anchor screw

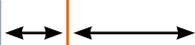
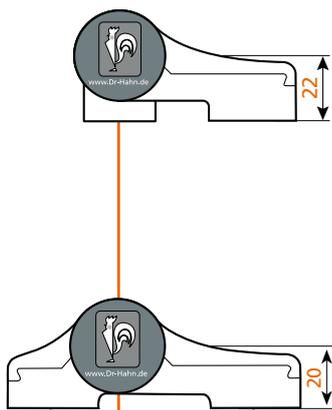
Closing sequence controller	Recommended hinge placement	Arrangement
		Distance from door edge approx. 150 mm
		Third hinge approx. 150 mm below the top hinge
		Distance from door edge approx. 150 mm
		Third hinge approx. 150 mm below the top hinge
		Third hinge approx. 150 mm below the top hinge
		Third hinge approx. 150 mm below the top hinge, fourth central
		Third hinge approx. 150 mm below the top hinge
		Third hinge approx. 150 mm below the top hinge, fourth central
		Third hinge approx. 150 mm below the top hinge
		Third hinge approx. 150 mm below the top hinge, fourth central
		Third hinge approx. 150 mm below the top hinge
		Third hinge approx. 150 mm below the top hinge, fourth central

M901 □ ○ 000 M951 □ ○ 000	M902 □ ○ 000 M952 □ ○ 000	M903 □ ○ 000 M953 □ ○ 000	M904 □ ○ 000 M954 □ ○ 000
M905 □ ○ 000 M955 □ ○ 000	M906 □ ○ 000 M956 □ ○ 000	M911 □ ○ 000 M961 □ ○ 000	M912 □ ○ 000 M962 □ ○ 000
M913 □ ○ 000 M963 □ ○ 000	M914 □ ○ 000 M964 □ ○ 000	M915 □ ○ 000 M965 □ ○ 000	M916 □ ○ 000 M966 □ ○ 000
M921 □ ○ 000 M971 □ ○ 000	M922 □ ○ 000 M972 □ ○ 000	M923 □ ○ 000 M973 □ ○ 000	M924 □ ○ 000 M974 □ ○ 000
M925 □ ○ 000 M975 □ ○ 000	M926 □ ○ 000 M976 □ ○ 000	M927 □ ○ 000 M977 □ ○ 000	M928 □ ○ 000 M978 □ ○ 000
M929 □ ○ 000 M979 □ ○ 000	M930 □ ○ 000 M980 □ ○ 000	M931 □ ○ 000 M981 □ ○ 000	M932 □ ○ 000 M982 □ ○ 000
Product number available on request	Product number available on request	Product number available on request	
M933 □ ○ 000 M983 □ ○ 000	M935 □ ○ 000 M985 □ ○ 000	M937 □ ○ 000 M987 □ ○ 000	



Bearing points made of maintenance-free PVC containing Teflon – do NOT lubricate!

Other versions available on request.



18.0 44.5 mm

18.0 56.0 mm

20.5 44.5 mm

20.5 56.0 mm

18.0 62.5 mm

20.5 62.5 mm

41.5 44.5 mm

41.5 56.0 mm

41.5 62.5 mm

47.0 44.5 mm

47.0 56.0 mm

47.0 62.5 mm

0 44.5 mm

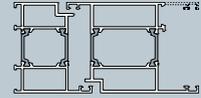
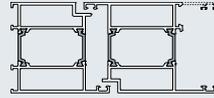
0 56.0 mm

0 62.5 mm

### Borehole gauge

### Standard frames

### Narrow frames



62.5 mm

M903

M953

M903

M953

74.0 mm

M915

M965

M915

M965

65.0 mm

M901

M951

76.5 mm

M913

M963

80.5 mm

83.0 mm

86.0 mm

97.5 mm

104.0 mm

91.5 mm

103.0 mm

109.5 mm

44.5 mm

M933

M983

56.0 mm

M935

M985

62.5 mm

M937

M987

**New!**



### Hahn anchor screw

#### For aluminium sections

37.5 mm  
19.5 mm\*

48 mm  
30 mm\*

58 mm  
40 mm\*

74 mm  
56 mm\*

#### For steel sections

58 mm  
40 mm\*



\* Effective length

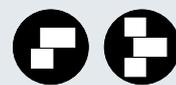
Mounting plates

15

21

0000

0001



Additional profile on door		Additional profile on frame		Colour key	Fastening		Drilling jigs						
				Other colours available. Please indicate separately.  1 = EV1 anodised R = Electric brown matt G = RAL 9016 coated 9 = Other colour as per specification	Plates		Anchor screw	Product number T <input type="text"/> <input type="text"/> <input type="text"/> A0000					
				1	R	G	9	0000	0001		000	103	153
				1	R	G	9	0000	0001		000	115	165
				1	R	G	9	0000	0001		000	101	151
				1	R	G	9	0000	0001		000	113	163
M931	M981			1	R	G	9	0000	0001		000	131	181
M925	M975			1	R	G	9	0000	0001		000	125	175
		M911	M961	1	R	G	9	0000	0001		000	111	161
		M923	M973	1	R	G	9	0000	0001		000	123	173
		M927	M977	1	R	G	9	0000	0001		000	127	177
		M905	M955	1	R	G	9	0000	0001		000	105	155
		M921	M971	1	R	G	9	0000	0001		000	121	171
		M929	M979	1	R	G	9	0000	0001		000	129	179
				1	R	G	9	0000	0001		000	133	183
				1	R	G	9	0000	0001		000	135	185
				1	R	G	9	0000	0001		000	137	187

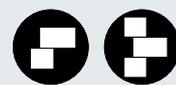
### Stock key

- 1 = EV1  
 R = Electric brown matt  
 G = RAL 9016
- K = 37.5 mm, Steel  
 L = 37.5 mm, Stainless steel  
 T = 48 mm, Steel  
 V = 48 mm, Stainless steel  
 W = 58 mm, Steel  
 Y = 58 mm, Stainless steel  
 S = 58 mm, for steel sections  
 M = 74 mm, Steel  
 N = 74 mm, Stainless steel
- Example:**  
 M901 **1** **T** 000  
 → EV1, 48 mm, steel

### Sample order

- 1** Hahn Türband 4 AT three-piece  
 Borehole gauge 91.5 mm  
 Pivot point 20 mm  
*Assigned number as per product overview: M955\_-----*
- 2** Electric brown matt
- 3** Fastening anchor screw steel, 58 mm
- 4** Fastening plate 15 mm
- 5** Fastening plate 21 mm
- M955 **1** **T** **0000**  
 M955 **R** **0000**  
 M955 **R** **W** **0000**  
 M955 **R** **0** **0000**  
 M955 **R** **0** **0001**





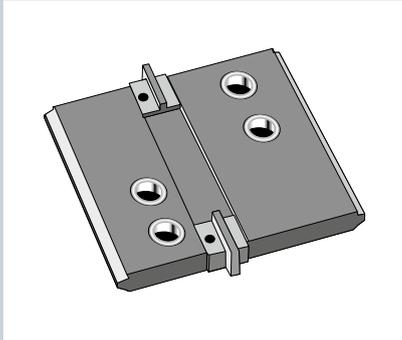
Additional profile on door		Additional profile on frame		Colour key	Fastening		Drilling jigs					
				Other colours available. Please indicate separately.  1 = EV1 anodised R = Electric brown matt G = RAL 9016 coated 9 = Other colour as per specification	Plates		Anchor screw	Product number				
					15	21		T	□□□ A0000			
M932	M982			1	R	G	9	0000	0001	○000	103	153
M926	M976			1	R	G	9	0000	0001	○000	115	165
		M912	M962	1	R	G	9	0000	0001	○000	101	151
				1	R	G	9	0000	0001	○000	113	163
				1	R	G	9	0000	0001	○000	131	181
				1	R	G	9	0000	0001	○000	125	175
				1	R	G	9	0000	0001	○000	111	161
				1	R	G	9	0000	0001	○000	123	173
				1	R	G	9	0000	0001	○000	127	177
				1	R	G	9	0000	0001	○000	105	155
				1	R	G	9	0000	0001	○000	121	171
				1	R	G	9	0000	0001	○000	129	179

### Stock key

- 1 = EV1
  - R = Electric brown matt
  - G = RAL 9016
  - K = 37.5 mm, Steel
  - L = 37.5 mm, Stainless steel
  - T = 48 mm, Steel
  - V = 48 mm, Stainless steel
  - W = 58 mm, Steel
  - Y = 58 mm, Stainless steel
  - S = 58 mm, for steel sections
  - M = 74 mm, Steel
  - N = 74 mm, Stainless steel
- Example:**  
 M901 1 T 000  
 → EV1, 48 mm, steel

### Sample order

- 1 HahnTürband 4 AT three-piece  
 Borehole gauge 62.5 mm  
 Pivot point 36 mm  
*Assigned number as per product overview: M954-----*  
 M954
- 2 Electric brown matt  
 M954R
- 3 Fastening anchor screw steel, 58 mm  
 M954RW000
- 4 Fastening plate 15 mm  
 M954R0000
- 5 Fastening plate 21 mm  
 M954R0001

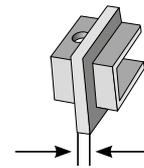


**Drilling jig** consisting of:

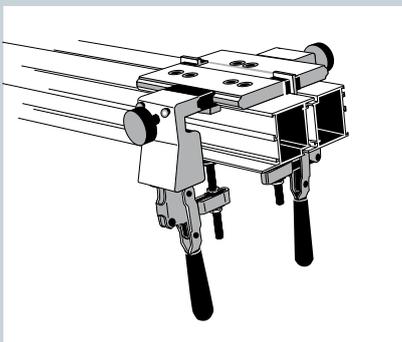
- 1 drill plate
- 3 pairs spacers for shadow groove (SN) (4, 5 and 6 mm)
- 2 grooved pins Ø 5 mm for self-installation

**Product numbers** see page 12–15

**Spacers**



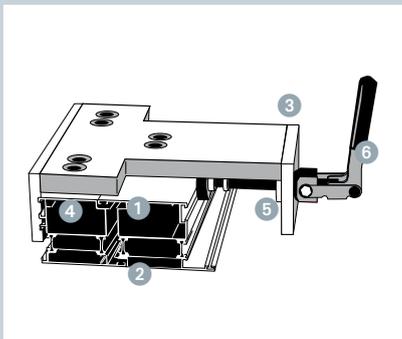
4 mm, 5 mm  
or 6 mm



**Add-on set** for setting up a quick-clamping drilling jig consisting of:

- 2 clamping units
- 2 large spacers with 4 screws M6 x 75
- 1 small spacer with 2 screws M6 x 60
- 4 screws M6 x 40 (for installation without spacers)

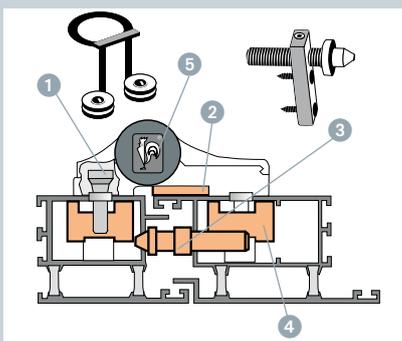
The add-on set is mounted on the existing drilling jig.  
The quick-clamping drilling jig is suited for projected widths up to approx. 90 mm (frame) or approx. 110 mm (wing).



**Quick-clamping drilling jig**

- 1 Omission of spacers on the hinge side
- 2 No longer necessary to twist sections
- 3 Fewer clamping tools – no complicated fastening of drilling jig with screw clamps
- 4 Section-fitted mounting
- 5 PVC pressure disk to prevent damage to section
- 6 Pretension adjustable to section tolerances

Please contact us if you would like to order a quick-clamping drilling jig.

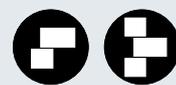


**Special accessories for intrusion protection**

(special design for intrusion-resistant doors)

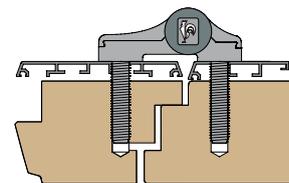
- 1 **Ball set**  
Balls for securing the hexagon sockets of fastening screws for doors that open outward
- 2 Plate to support the hinge on the section.
- 3 **Collared securing pin**  
Collared securing pin to prevent the door from being forced open
- 4 Section-based mounting plates
- 5 Saw-resistant bearing pin

## Special versions



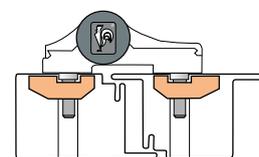
### Wood/aluminium designs

Different lengths of screw anchor versions available.

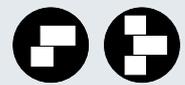


### Wide mounting plates

for thin-walled steel sections



# Parts



**1** Product number available on request  
**2** Product number available on request  
**3** Product number available on request  
**4** Product number available on request  
**5** Product number available on request  
**6** M900E0002  
**7** M900E0000  
M900E0001  
**8** A900K0010 white  
A900K0000 black  
M900K0003 white  
M900K0001 black  
**9** M900K0004 white  
M900K0002 black  
**10** M900K0040 white  
M900K0020 black  
**11** A900G0000  
**12** M900G0000  
**13** M700G0012  
**14** M900E0003

- 1 Frame hinge part
- 2 Wing hinge part
- 3 Cover strip for frame hinge part
- 4 Cover strip for wing hinge part
- 5 Mounting plate
- 6 Retaining screw
- 7 Bearing pin
- 8 Bearing bushing
- 9 Upthrust washer
- 10 Cap
- 11 Pressure spindle
- 12 Lifting and lowering spindle
- 13 Sleeve for screw anchor
- 14 Setscrew with pin

## Product numbers / Accessories

Slip-type jig bush  
5/11 mm



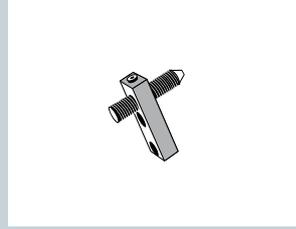
A650A0056

Ball set  
PU = 40 balls,  
2 each in special holder



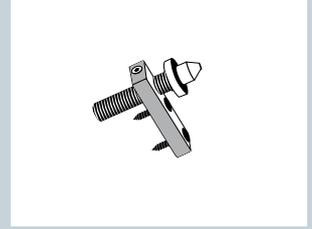
A950A0011

Safety mandrel



A650A0017

Safety mandrel  
with collar



A850A0000

Step drill  
6/11 mm



A650A0035

Saw-resistant bearing pin  
(for two-piece hinges)  
PU = 24 pieces



M950A0001

Saw-resistant bearing pin  
(for three-piece hinges)  
PU = 24 pieces



M950A0000



 **Dr. Hahn**<sup>®</sup>  
HINGES. MADE IN GERMANY.



**Dr. Hahn GmbH & Co. KG**

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