



BAKA Protect Series 2000 / 4000

The adjustable hinge system for timber entrance doors

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BAKA PROTECT

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Hinge systems for timber entrance doors...

...innovative hardware for outstanding stability and safety

SIMONSWERK INTRODUCTION

BAKA Protect – timber entrance door hinges for current profile constructions

Deciding to have a timber entrance door is deciding to use a natural material that should convey well-being and individuality, without neglecting the requirement for modern functionality and tested safety. The SIMONSWERK innovative BAKA Protect product family provides an optimum range of two and three dimensionally adjustable hinge systems that is specifically aimed at the high quality timber entrance doors market sector.

A high degree of transparency using glass and narrower profile views is the current trend in modern exterior door design. New, innovative rebate constructions are used that also require a completely new approach in hinge technology for wooden exterior doors, taking legal requirements such as the energy saving legislation and the requirement for thicker and therefore heavier glass into consideration.

The newly developed door hinge systems in the BAKA Protect 2000 product range (with 2D adjustment) and the BAKA Protect 4000 product range (with 3D adjustment) are optimally adapted to the requirements of the current rebate constructions and make it possible to follow the trend towards narrower door profiles. The increased load capacities up to 120 kg with 2D adjustment and up to 160 kg with 3D adjustment also support heavy glass, which is in line with current market requirements. This hinge system is rounded off by the usual comprehensive range of finishes and the template technology that is required for functional and efficient installation.

Features at a glance

- Matched to current profile constructions
- Increased load capacities: 2D up to 120 kg

3D up to 160 kg

- Comfortable adjustment
- Internal hinge pin
- Security pin (MSTS) option for outward opening doors
- Finish: stainless steel satin brushed, top zinc, traffic white - RAL 9016, brown - H9

SIMONSWERK BAKA®

Series BAKA Protect 2000

Hinge system with 2D adjustment for timber entrance doors

entrance door	up to 120 kg	2D adjustment
Technical Data		
Load capacity		120.0 kg
Knuckle length		120.0 mm
Knuckle diameter		20.0 mm
Cutter diameter		20.0 mm



Product features

• Matched to current profile constructions

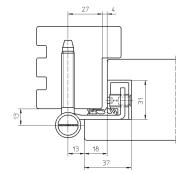
• Comfortable 2D-adjustment Side +/-3.0 mm Compression +/-3.0 mm Minimized routing work

Model version

Model version	
Hinge system	BAKA Protect 2010 2D
	BAKA Protect 2010 2D FD
	BAKA Protect 2020 2D
	BAKA Protect 2030 2D FD
	BAKA Protect 2040 2D FD

Detailed information on www.simonswerk.com

Installation Tools Plug-in drilling jig BAKA Protect 2000 Frame Jig ball bearing location jig BAKA Protect 2000 frame routing jig BAKA Protect 2000 door ball bearing location routing jig BAKA Protect 2000 door See page 12 and following



120 100

Ф

stainless steel satin brushed, top zinc, traffic white - RAL 9016, brown - H9

Note

Also available with security pin (MSTS).

Download routing data from www.simonswerk.com.

Functional range

burglar resistance

Quality marks





Finial options







ZK

Basic

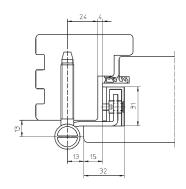
Soft

MODEL VERSIONS

Series BAKA Protect 2000

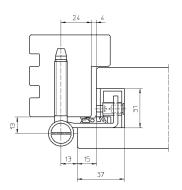
15 mm overlap without sash accoustic seal

Model: BAKA Protect 2010 2D



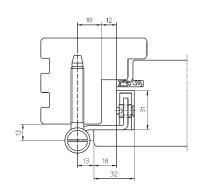
15 mm overlap with sash accoustic seal

Model: BAKA Protect 2010 2D FD



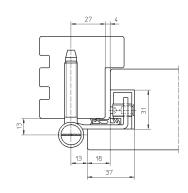
18 mm overlap without sash accoustic seal

Model: BAKA Protect 2010 2D



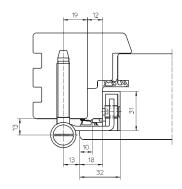
18 mm overlap without sash accoustic seal

Model: BAKA Protect 2010 2D FD



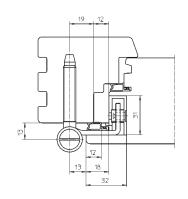
18 mm overlap with sash accoustic seal (10 mm)

Model: BAKA Protect 2030 2D FD



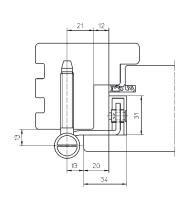
18 mm overlap with sash accoustic seal (12 mm)

Model: BAKA Protect 2040 2D FD



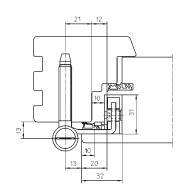
20 mm overlap without sash accoustic seal

Model: BAKA Protect 2020 2D



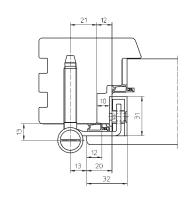
20 mm overlap with sash accoustic seal (10 mm)

Model: BAKA Protect 2030 2D FD



20 mm overlap with sash accoustic seal (12 mm)

Model: BAKA Protect 2040 2D FD



SIMONSWERK BAKA®

Series BAKA Protect 4000

Hinge system with easy adjustment by means of an eccentric for timber entrance doors

entrance door	up to 160 kg	3D adjustable
Technical Data		
Load capacity		160.0 kg
Knuckle length		140.0 mm
Knuckle diameter		20.0 mm
Cutter diameter		20.0 mm



Product features

- Matched to current profile constructions
- Comfortable 3D-adjustment Side +/-3.0 mm, Height +/-3.0 mm, Compression +/-3.0 mm
- Minimized routing work
- Internal hinge pin

Model version

Hinge system	BAKA Protect 4010 3D	BAKA Protect 4010 3D FD
	BAKA Protect 4020 3D	BAKA Protect 4030 3D FD
	BAKA Protect 4040 3D FD	BAKA Protect 4040 3D FD

Detailed information on www.simonswerk.com

Combination

Combination	
Accessories	decorative sleeve No.12
see page 10	

Installation Tools

Jig	Frame	Drilling-/Routing jig BAKA Protect 4000 frame
		ball bearing location drilling/routing jig
		BAKA Protect 4000 frame
	Door	routing jig BAKA Protect 4000 door
	ball bear	ring location routing jig BAKA Protect 4000 door
500 0000 1/		

see page 14

Finish

stainless steel satin brushed, top zinc, traffic white - RAL 9016, brown - H9

Note

Set consists of 3 hinges (1 hinge = height adjustment, 2 hinges = compression adjustment).

Also available with security pin (MSTS).

Download routing data from www.simonswerk.com.

Functional range

burglar resistance

Quality marks





Finial options

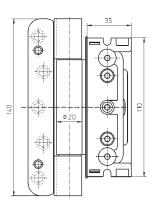


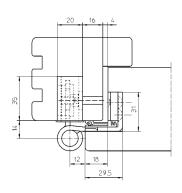




Basic Soft

ZK



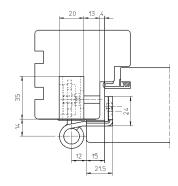


MODEL VERSIONS

Series BAKA Protect 4000

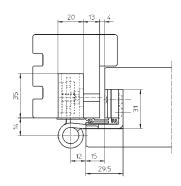
15 mm overlap without sash accoustic seal

Model: BAKA Protect 4010 3D



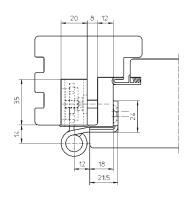
15 mm overlap with sash accoustic seal

Model: BAKA Protect 4010 3D FD



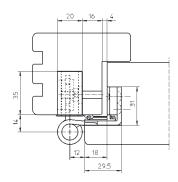
18 mm overlap without sash accoustic seal

Model: BAKA Protect 4010 3D



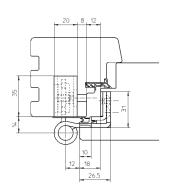
18 mm overlap with sash accoustic seal

Model: BAKA Protect 4010 3D FD



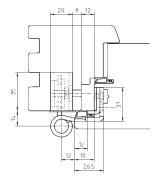
18 mm overlap with sash accoustic seal (10 mm)

Model: BAKA Protect 4030 3D FD



18 mm overlap with sash accoustic seal (12 mm)

Model: BAKA Protect 4040 3D FD

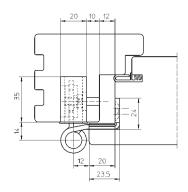


MODEL VERSIONS

Series BAKA Protect 4000

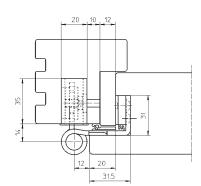
20 mm overlap without sash accoustic seal

Model: BAKA Protect 4020 3D



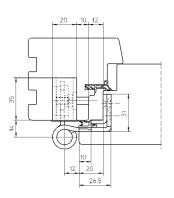
20 mm overlap with sash accoustic seal

Model: BAKA Protect 4020 3D FD



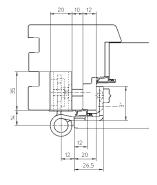
20 mm overlap with sash accoustic seal (10 mm)

Model: BAKA Protect 4030 3D FD



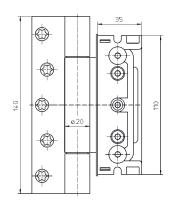
20 mm overlap with sash accoustic seal (12 mm)

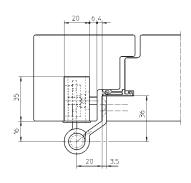
Model: BAKA Protect 4040 3D FD



3D adjustable







BAKA Protect 4048 3D

with comfortable 3D adjustment by means of an eccentric for rebated-flush timber entrance doors

up to 120 kg

Technical Data	
Load capacity	120.0 kg
Knuckle length	140.0 mm
Knuckle diameter	20.0 mm
Cutter diameter	20.0 mm

Product features

entrance door

- Receiver concealed in frame
- Maintenance-free slide bearing technology
- Easy 3D adjustment Side +/-3.0 mm, Height +/-3.0 mm, Compression +/-3.0 mm
- Comfortable adjustment by means of eccentric
- Internal hinge pin

Com	

Accessories	Cover cap BAKA Protect 4000
see page 10	

Installation Tools

mstaliation roofs		
Jig	Frame	Drilling-/Routing jig BAKA Protect 4000 frame
		Ball bearing location drilling/routing jig
		BAKA Protect 4000 frame
	Door	on demand

see page 14

Finish

stainless steel satin brushed, top zinc, traffic white - RAL 9016

Note

Set consists of 3 hinges (1 hinge = height adjustment, 2 hinges = compression adjustment).

Also available with security pin (MSTS).

Download routing data from www.simonswerk.com.

SIMONSWERK BAKA®

Cover Cap BAKA Protect 4000

Accessories for timber entrance doors with 3D adjustment

Accessories		Cover cap
Combination		
Door hinge	BAKA Protect 4010 3D	BAKA Protect 4010 3D FD
	BAKA Protect 4020 3D	BAKA Protect 4020 3D FD
	BAKA Protect 4030 3D FD	BAKA Protect 4040 3D FD
		BAKA Protect 4048 3D



traffic white - RAL 9016, agate grey - RAL 7038, jet black - RAL 9005, brown beige -RAL 1011/light brown, terra brown - RAL 8028/dark brown

To be used for covering the rebate holes in the frame, dimensions 117.0 \times 13.0 mm.

Decorative Sleeve No. 11	L
Combination	
Door hinge	BAKA Protect 2010 2D
	BAKA Protect 2010 2D FD
	BAKA Protect 2020 2D
	BAKA Protect 2030 2D FD
	BAKA Protect 2040 2D FD

satin chromed/F1, satin nickelled/F2, chromed, gilded, browned, traffic white-RAL 9016, brown - H9



_		
Com	bına	ition

Combination	
Door hinge	BAKA Protect 4010 3D
	BAKA Protect 4010 3D FD
	BAKA Protect 4020 3D
	BAKA Protect 4020 3D FD
	BAKA Protect 4030 3D FD
	BAKA Protect 4040 3D FD

Finish

satin chromed/F1, satin nickelled/F2, chromed, gilded, browned, traffic white -RAL 9016, brown - H9

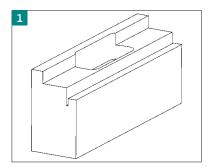




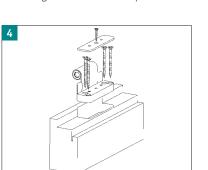


FITTING/ADJUSTMENT

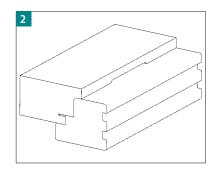
Series BAKA Protect 2000



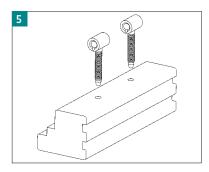
Determine the hinge position in the door and conduct the routing. Cutter \emptyset according to data on the template.



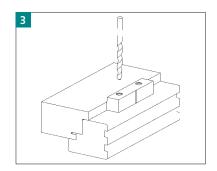
Fasten the door part in the mortise with 4 wood screws 5 x 40 mm.



Insert the door into the frame and pull to the hinge side.



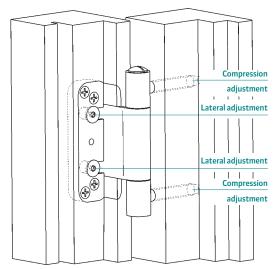
Screw the frame parts in, depending on the sealing compression and bring them in an upright position. Insert the door and drive the hinge pin in.



Insert the jig in the mortise (4 mm clearance on the hinge side is taken into account in the jig). Determine upper clearance by means of spacer blocks. Drill the holes using an 8.8 mm Øbit. Remove the door from the frame.

Important Note

Avoid damaging the bearings when fitting the door!



Series BAKA Protect 2000

${\bf Two-dimensionally, continuously\, adjustable}$

Side	+/- 3.0 mm
Compression	+/- 3.0 mm

Lateral adjustment

- Turn the adjustment screws in the required direction.
- Avoid strain on the axis of all hinges.

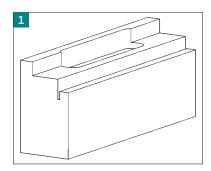
Compression adjustment

- Remove the door
- Adjust by turning the frame pins in or out
- Refit the door

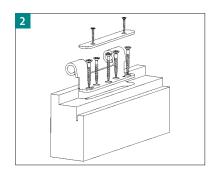
All adjustments can be conducted by a 4 mm Allen key.

FITTING

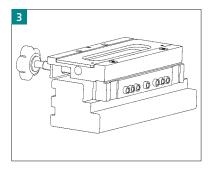
Series BAKA Protect 4000



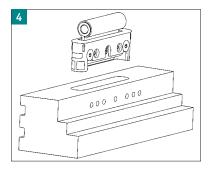
Determine the hinge position in the door. Conduct the routing work. Cutter \emptyset according to data on the template.



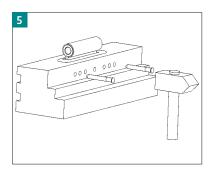
Fasten the door part in the mortise with 5 wood screws 5 x 40 mm.



Clamp on the drilling/routing jig. Drill the holes using a 6.0~mm Ø bit; cutter Ø according to data on the template.



Insert the receivers and place the side with the adjustment screws to the drill holes. Caution: Hinges "A" are inserted at the top and bottom, hinge "H" is inserted in the middle.

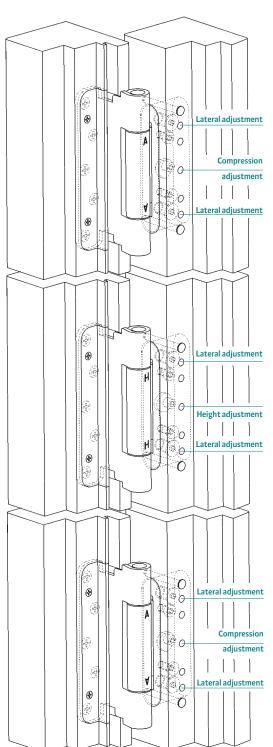


Drive fastening pins into the upper and lower drill hole, mount the door, insert the hinge pin.

Important Note

Avoid damaging the bearings when fitting the door!

ADJUSTMENT



Series BAKA Protect 4000

Three-dimensionally, continuously adjustable

Side	+/- 3.0 mm
Height	+/- 3.0 mm
Compression	+/- 3.0 mm

Lateral adjustment

- Turn both adjustment screws equally (max. one turn) in relevant direction.
- Avoid tilt knuckles and tension on the axis. Proper alignment is crucial!

Height adjustment

- Slightly loosen the clamping screws in the frame part of all hinges.
- Adjust the height by turning the eccentric adjustments of the middle hinge in the desired direction.
- Retighten the clamping screws.

Compression adjustment

- Slightly loosen the clamping screws in the frame part of all hinges.
- Adjust the compression by turning the eccentric adjustments of the upper and the lower hinge in the desired direction.
- Retighten the clamping screws.

All adjustments can be conducted by a 4 mm Allen key.

BAKA®

Plug-in drilling jig BAKA Protect 2000

Jig for the frame drillings.

To be used for

BAKA Protect 2010 2D	
BAKA Protect 2010 2D FD	
BAKA Protect 2020 2D	
BAKA Protect 2030 2D FD	
BAKA Protect 2040 2D FD	

The complete jig consists of

1 drilling jig

1 drill bit Ø 8.8 mm

1 set ring

1 wind-in claw Ø 20 mm

1 fitting instruction

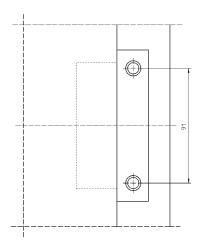
Fitting instructions

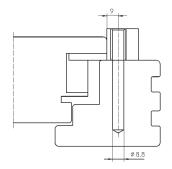
- 1. Determine hinge position on door leaf. Rout the mortise in the door leaf with BAKA Protect 2000 routing jig.
- 2. Insert door leaf in frame. The 4-mm clearance on the hinge side is considered in the drilling jig.
- 3. If neccesary, screw the compensation plate to the plug-in drilling jig BAKA Protect 2000 (see imprint). Dependent on the door construction!
- 4. Fix BAKA Protect 2000 plug-in jig in the mortise slot and drill holes. Remove door leaf from frame, screw in frame parts according to seal pressure and align vertically. Screw BAKA Protect 2000 door part into the mortise. Insert door leaf and drive the pin.

Note

Please indicate hinge type when ordering drilling jig.

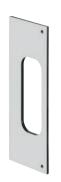


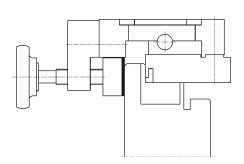












Routing jig BAKA Protect 2000 door

Jig for the door part routings.

To be used for

BAKA Protect 2010 2D
BAKA Protect 2010 2D FD
BAKA Protect 2020 2D
BAKA Protect 2030 2D FD
BAKA Protect 2040 2D FD

The complete jig consists of

1 routing jig

 $1 \, \text{routing template BAKA Protect 2000 door 20/3D}$

1 fitting instruction

Fitting instructions

1. Clamp routing jig onto workpiece, insert template and conduct the routing.

2. Loosen quick-release clamp and remove routing jig.

Cutter: Ø 20 mm Collar ring: Ø 30 mm

Note

Templates for the following combinations (cutter/collar ring) are also available as accessories:

template BAKA Protect 2000 door 16/30 template BAKA Protect 2000 door 16/27 template BAKA Protect 2000 door 20/27

BAKA®

Ball bearing location drilling jig 2000 frame

Jig for ,the drillings in the frame separately.

To be used for

BAKA Protect 2010 2D
BAKA Protect 2010 2D FD
BAKA Protect 2020 2D
BAKA Protect 2030 2D FD
BAKA Protect 2040 2D FD

The complete jig consists of

3 drilling jigs

1 square connecting rod with ball-bearing location guide

2 fittings

 $1\,drill\,bit\,\emptyset\,8.8\,mm$

1 set ring

1 wind-in claw Ø 20 mm

 $1\, {\it fitting}\, {\it instruction}$

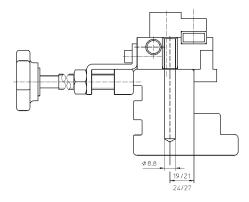
Fitting instructions

- 1. The end stops need to be individually adjusted for right- or left hand and placed into the frame rebate.
- 2. Align ball-bearing location drilling jig with the door jig.
- 3. Adjust the side stops depending on door construction (see imprint)
- 4. Clamp ball-bearing location drilling jig to the work piece. The 4 mm clearance on the hinge side is considered in the drilling jig.
- 5. Drill holes (Ø 8.8-mm drill bit)
- 6. Screw in frame parts according to required depth position, and align vertically.
- 7. Insert door leaf and drive the pin in.

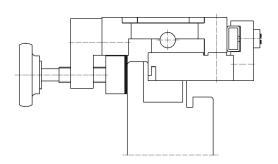
Note

Additional drilling jigs for mounting further hinges are available on request.









Ball bearing location routing jig BAKA Protect 2000 door

With this serial routing jig door leaves and frames can be fitted rationally. Easy setting of jig due to ball bearing location. Applicable for right and left hand.

To be used for

BAKA Protect 2010 2D
BAKA Protect 2010 2D FD
BAKA Protect 2020 2D
BAKA Protect 2030 2D FD
BAKA Protect 2040 2D FD

The complete jig consists of

3 routing jigs

3 routing templates BAKA Protect 2000 door 20/30

1 square connecting rod with ball-bearing location guide

2 end stops

1 fitting instruction

Fitting instructions

- 1. The end stops need to be individually adjusted for right or left hand and placed into the door rebate.
- 2. Align BAKA Protect 2000 door ball bearing location routing jig with frame jig.
- 3. Clamp ball bearing location routing jig to the workpiece, insert template and rout.
- 4. Conduct the routing, loosen quick-release clamp and remove ball bearing location routing jig.

Cutter: Ø 20 mm Collar ring: Ø 30 mm

Note

Templates for the following combinations (cutter/collar ring) are also available as

routing template BAKA Protect 2000 door 16/30 routing template BAKA Protect 2000 door 16/27 routing template BAKA Protect 2000 door 20/27

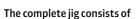
BAKA®

Drilling-/routing jig BAKA Protect 4000 frame

For drilling the 7 frame holes and routing for the following hinges.

To be used for

BAKA Protect 4010 3D
BAKA Protect 4010 3D FD
BAKA Protect 4020 3D
BAKA Protect 4030 3D FD
BAKA Protect 4040 3D FD
BAKA Protect 4048 3D



1 drilling-/routing jig

1 routing template BAKA Protect 4000 frame 20/30

1 drill bit Ø 6 mm

1 set ring

 $1\, {\it fitting}\, {\it instruction}$

Fitting instructions

- 1. Determine hinge position.
- 2. Adjust the side stops depending on door construction (see imprint).
- 3. Clamp drilling-/routing jig onto the workpiece. The clearance on the hinge side is considered in the jig.
- 4. Drill frame holes (Ø 6.0 mm drill bit).
- 5. Rout mortise

Cutter: Ø 20 mm Collar ring: Ø 30 mm.

6. Insert receiver and lock in place with fastening pins.

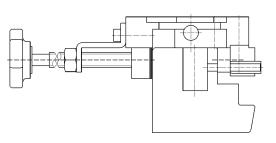
Note

Templates for the following combinations (cutter/collar ring) are also available as accessories:

routing template BAKA Protect 4000 frame 16/30 routing template BAKA Protect 4000 frame 16/27 routing template BAKA Protect 4000 frame 20/27









Retrofit kit BAKA Protect 4000

With this retrofit kit you can continue working with your already existing drilling/routing jigs BAKA protect 3D frame. The only thing to do is to exchange the drilling rail on the used jig.

To be used for

BAKA Protect 4010 3D
BAKA Protect 4010 3D FD
BAKA Protect 4020 3D
BAKA Protect 4020 3D FD
BAKA Protect 4030 3D FD
BAKA Protect 4040 3D FD
BAKA Protect 4048 3D

The complete kit exists of:

1 drilling rail

3 side stops

1 drill bit Ø 6.0 mm

1 set ring

2 fixing screws

Fitting instructions

- 1. Exchange drilling rail on existing drilling/routing jig.
- 2. Adjust the side stops depending on door construction (see imprint). Standard position is 18 mm overlap and 4 mm clearance.
- 3. Clamp drilling-/routing jig onto the workpiece. The clearance on the hinge side is considered in the jig.
- 4. Drill frame holes (Ø 6.0 mm drill bit).
- 5. Rout mortise

Cutter: Ø 20 mm Collar ring: Ø 30 mm.

6. Insert receiver and lock in place with fastening pins.

SIMONSWERK BAKA®

Routing jig BAKA Protect 4000 door

Jig for door routings for the following hinges:

To be used for

BAKA Protect 4010 3D
BAKA Protect 4010 3D FD
BAKA Protect 4020 3D
BAKA Protect 4030 3D FD
BAKA Protect 4040 3D FD

The complete jig consists of

1 routing jig

- 1 routing template BAKA Protect 4000 door 20/30
- $1\, {\it fitting}\, {\it instruction}$

Fitting instructions

- Clamp routing jig onto workpiece, insert template and conduct the routing.
- After routing, loosen quick-release clamp and remove ball bearing location routing jig.

Ø 20 mm Cutter: Collar ring: \emptyset 30 mm

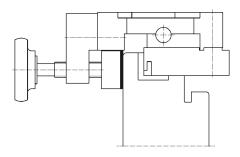
Note

Templates for the following combinations (cutter/collar ring) are also available as

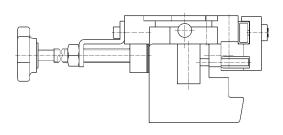
routing template BAKA Protect 4000 door 16/30 routing template BAKA Protect 4000 door 16/27 routing template BAKA Protect 4000 door 20/27











Ball bearing location drilling/routing jig BAKA Protect 4000 frame

With this serial drilling/routing jig the 7 frame drillings and the routings for the hinges listed below can be done.

Easy settings of jig due to ball bearing location.

To be used for

BAKA Protect 4010 3D
BAKA Protect 4010 3D FD
BAKA Protect 4020 3D
BAKA Protect 4030 3D FD
BAKA Protect 4040 3D FD

The complete jig consists of:

3 drilling-/ routing jigs

3 routing templates BAKA Protect 4000 frame 20/30

1 square connecting rod with ball-bearing location guide

2 end stops

1 drill bit Ø 6 mm

1 set ring

1 fitting instruction

Fitting instructions

- The end stops need to be individually adjusted for right- or left hand and placed into the frame rebate.
- 2. Adjust the side stops depending on door construction (see imprint)
- 3. Align ball-bearing location drilling/routing jig with door jig.
- 4. Clamp drilling-/routing jig into workpiece. The clearance on the hinge side is considered in the jig.
- 5. Drill frame holes (Ø 6.0 mm drill bit).
- 6. Rout mortise

Cutter: Ø 20 mm Collar ring: Ø 30 mm

7. Insert receiver and lock in place with fastening pins.

Note

Templates for the following combinations (cutter/collar ring) are also available as accessories:

routing template BAKA Protect 4000 frame 16/30 routing template BAKA Protect 4000 frame 16/27 routing template BAKA Protect 4000 frame 20/27

BAKA®

Ball bearing location routing jig BAKA Protect 4000 door

With this serial routing jig door leaves and frames can be fitted rationally. Easy setting of jig due to ball bearing location. Applicable for right and left hand.

To be used for

BAKA Protect 4010 3D
BAKA Protect 4010 3D FD
BAKA Protect 4020 3D
BAKA Protect 4030 3D FD
BAKA Protect 4040 3D FD

The complete jig consists of:

3 routing jigs

3 routing templates BAKA Protect 4000 door 20/30

1 square connecting rod with ball-bearing location guide

2 end stops

 $1\, {\it fitting}\, {\it instruction}$

Fitting instructions

- 1. The end stops need to be individually adjusted for right- or left hand and placed into the door rebate.
- 2. Align BAKA Protect 4000 door ball bearing location routing jig with frame jig.
- 3. Clamp ball bearing location routing jig into the workpiece, insert template and conduct the routing.
- 4. After routing, loosen quick-release clamp and remove ball bearing location routing jig.

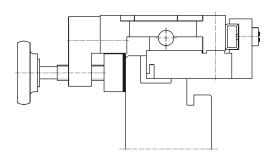
Cutter: Ø 20 mm Collar ring: Ø 30 mm

Note

Templates for the following combinations (cutter/collar ring) are also available as accessories:

routing template BAKA Protect 4000 door 16/30 routing template BAKA Protect 4000 door 16/27 routing template BAKA Protect 4000 door 20/27





BAKA® Protect 2010 2D 2020 2D 2040 2D FD 4010 3D FD 4020 3D FD 4040 3D FD 2010 2D FD 2030 2D FD 4010 3D 4020 3D FD 4048 3D

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- SIMONSWERK VARIANT® VN
- SIMONSWERK VARIANT® VG
- SIMONSWERK VARIANT® V
- SIMONSWERK SIKU®
- SIMONSWERK ALPRO®

SIMONSWERK advise **FESTOOL** routing technology. Please contact us.

Brochure BAKA® Protect



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