

# activPilot Concept

Operating and maintenance manual for the window  
company

## General notes and safety advices

These instructions are intended for the window company. They describe essential adjustment and maintenance work. Please observe the following notices: Fitting parts are to be tested regularly to ensure they are seated firmly and checked for wear. Fastening screws are to be retightened and parts replaced as necessary. Their functionality is to be retested afterwards. Fittings may only be cleaned with mild, ph-neutral cleaning agents in diluted form. Use only cleaning agents which do not degrade the corrosion protection on fitting parts. Never use aggressive, acidic or caustic cleaners, scouring agents or sharp objects to clean fitting parts. Always also observe the guideline for product specifications/notices and liability (VHBH) when making adjustments or performing maintenance.

This information can be obtained at the following Internet address: <http://www.beschlagindustrie.de/ggsb/richtlinien.asp>

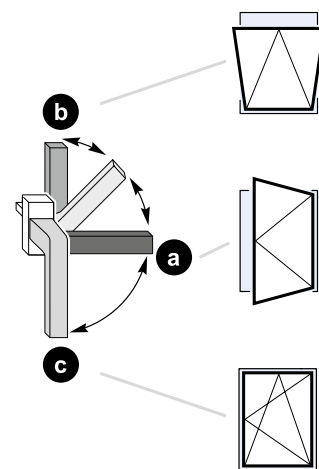
### Operating the turn-tilt window

See figure: Turn-tilt window

- Push the handle down (c). The window is closed.
- Move the handle to the central position (a). The window is unlocked; the sash can now be opened fully.
- Close sash. Push the handle up (b). The window is unlocked; the sash can now be tilted.



Note: Optionally turn-tilt windows can be equipped with a mini ventilation function. By turning the handle in between the shown positions (a) and (b), the "variable tilt device" is addressed. Different tilt angles of the sash can be achieved by arresting the fitting components.



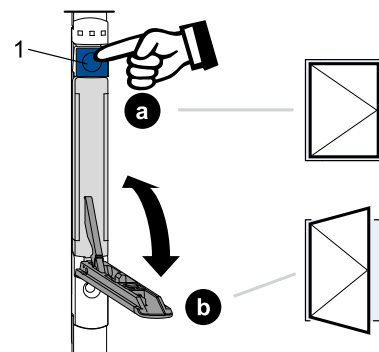
Turn-tilt window

### Operating the double-sash window

See figure: Double-sash window

Press the unlocking button (1) and pull down the lever so it's in the end position (b; opening angle approx. 135 °). The window is unlocked; the sash can be fully opened.

Close sash. Return lever to original position (a). The window is closed.



Double-sash window

## Sash installation and removal

### activPilot Concept

#### Turn-tilt and turn double sash type



Attention: Secure the window sash from falling. Take the heavy sash weight into account! Two people should carry the sash if necessary.

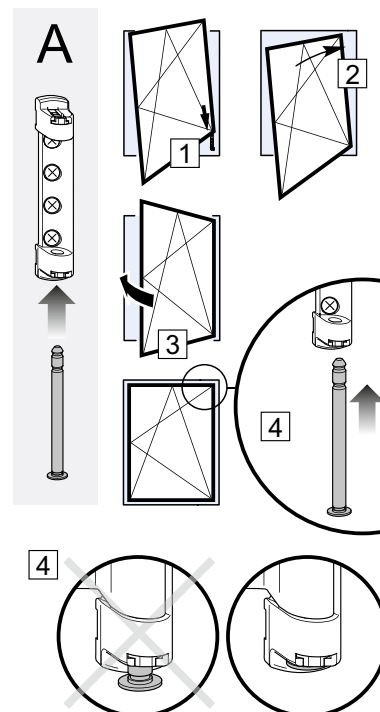
#### Fitting the sash

(A)

- Mount the sash, adjust for a good seal and fit the pin to secure against the shear hinge.
- Push all end caps and sealing caps onto the shear and corner hinges.



Please note: Insert the pin from the underside (see 4).



Fitting the sash

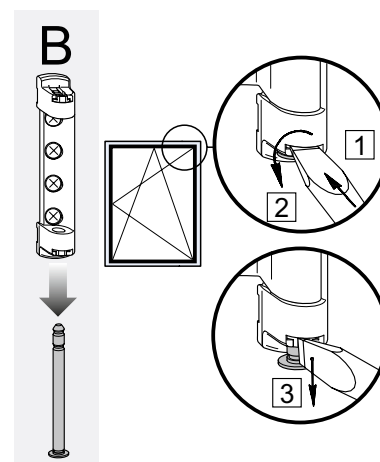
#### Removal of the sash

(B)

- Move the sash to the sealing plane.
- Release the pin from the shear hinge.
- Remove the sash.



Attention! Damage to shear hinge. In case of improper use and if you attempt to drive out the pin forcibly, the shear hinge will be damaged. Use only a screwdriver to release the pin as shown in Fig. B.



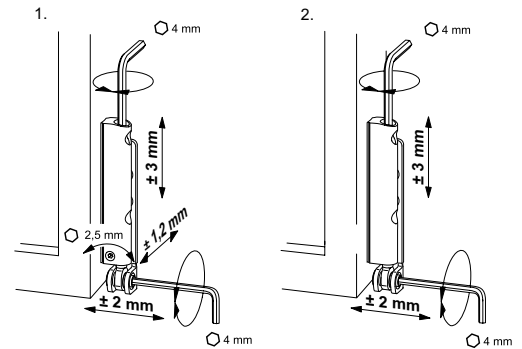
Removal of the sash

## Adjustment options

### Corner hinge/sash hinge

Sash hinge height adjustment ( $\pm 3$  mm) and corner hinge side adjustment ( $\pm 2$  mm).

For sash hinge adjustment of the contact pressure between sash and frame ( $\pm 1.2$  mm) using a 2.5 mm Allen key.

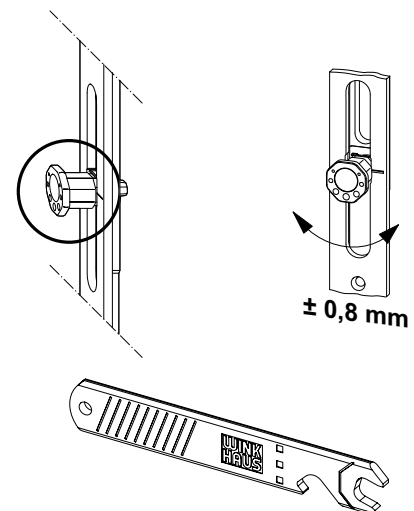


1. with contact pressure adjustment

2. without contact pressure adjustment

### Octagonal bolt

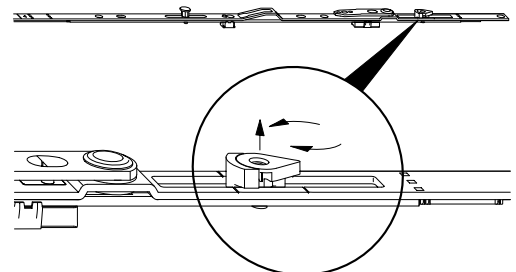
Regulate the contact pressure between the sash and the frame ( $\pm 0.8$  mm) by turning the octagonal bolt. The adjustment can be carried by means of the Winkhaus adjustment key (V.SCH.ACP-S).



Octagonal bolt

### Shear retraction

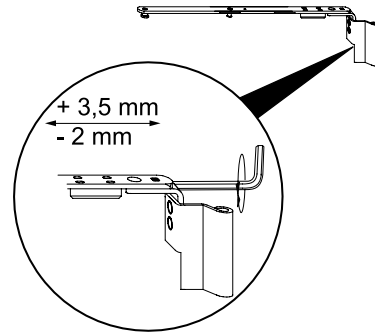
The progressive shear pull-in is adjustable from 18 to 28 mm. Release the catch by pulling up on the adjustment latch then pivot the adjustment latch away from the overlap. A variable tilt device, MSL.OS, can be used as an alternative to the progressive shear pull-in.



Shear retraction

### Shear – Rectangular window

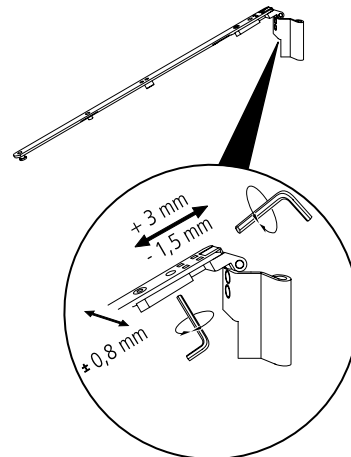
Lifting and lowering the sash (from -2 to +3.5 mm) by means of a 4 mm Allen key.



Shear – Rectangular window

### Shear – studio window

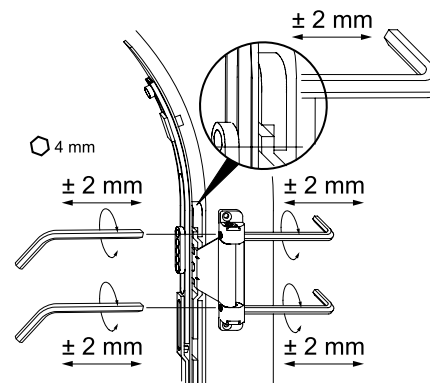
Lifting and lowering the sash and adjustment of contact pressure by means of a 4 mm Allen key.



Shear – studio window

### Shear – round-arch window

Lifting and lowering the sash and adjustment of contact pressure by means of a 4 mm Allen key.



Shear – round-arch window

## Adjustment and maintenance

### Dual/triple function element

#### DFE/TFE activation

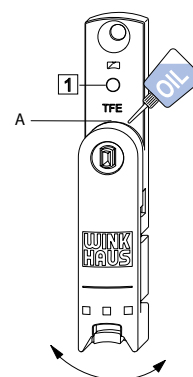
The DFE/TFE element is supplied in the neutral position. Please proceed as follows:

Drive in the protruding pin to fix in place (1).

Non-handed by swivelling out the lever once only.

Dribble a few drops of oil (free of resin and acid) onto lubrication points.

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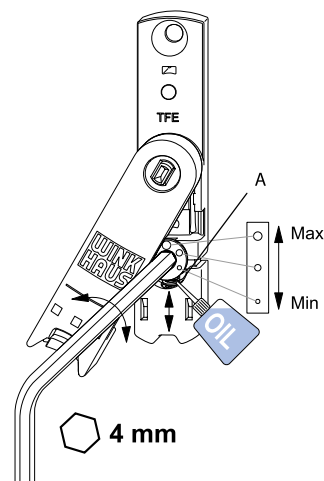
DFE/TFE activation

#### TFE – Retaining force of balcony door catch

Adjusting the holding force by re-setting the eccentric cam with a 4 mm Allen key.

Adjusting the holding force by re-setting the eccentric cam with a 4 mm Allen key.

Dribble a few drops of oil (free of resin and acid) onto lubrication points.

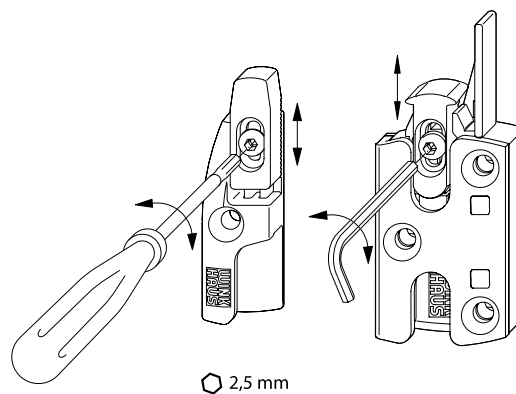


TFE – Retaining force of balcony door catch

#### Frame part DFE/TFE

Height adjustment (+/- 3 mm) for sash support plate.

Each time fittings are adjusted, the DFE/TFE height setting should also be checked using a 2.5 mm Allen key.



Frame part DFE/TFE

## Maintenance

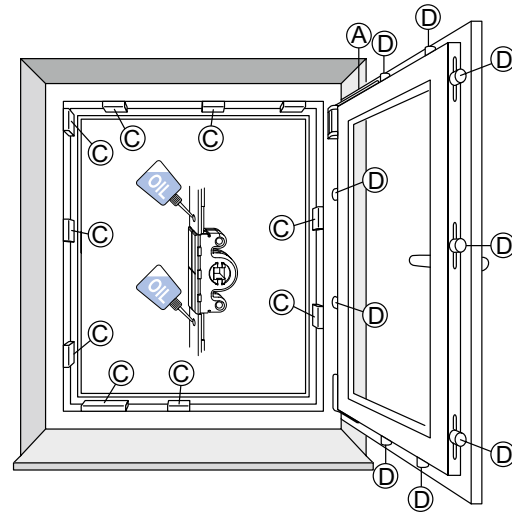
### Lubrication points

See figure: Overview of lubrication points

The figure shows the location of possible lubrication points which should be lubricated at least once a year. Positions A, C, D = lubrication points relevant to function.



Please note: The fitting schematic shown adjacent does not necessarily match the existing fitting. The number of locking positions will vary depending on size and type of the window sash.



Overview of lubrication points



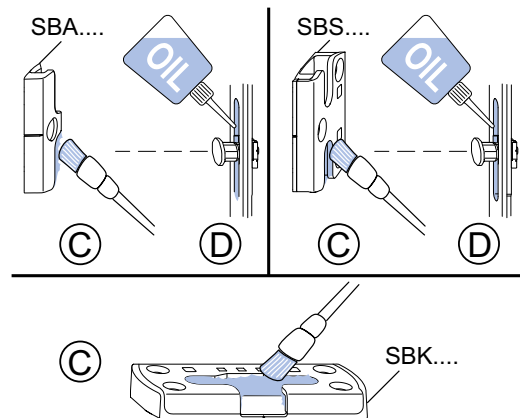
Attention! Risk of injury. The window could fall on removal and thus injure persons. Do not remove the window for maintenance.

### Keeps

See figure: Lubrication points

To keep fittings running smoothly, you must lubricate the keeps once a year.

- Lubricate the keeps (C) at the run-in side with technical Vaseline or any other suitable grease.
- Coat the running surfaces of the locking bolts (D) with an oil that is free of resins and acids.

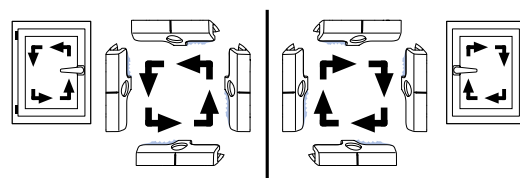


Lubrication points

### Ascertaining the run-in sides

See figure: Run-in sides

- Left-handed window; handle right
- Right-handed window; handle left



Run-in sides

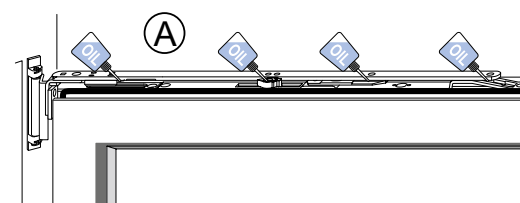
### Shears

See figure: Shears

All of the shear's contact points with the top rod should be oiled once annually.



Note: The shear hinge must not be oiled or greased.



Shears

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