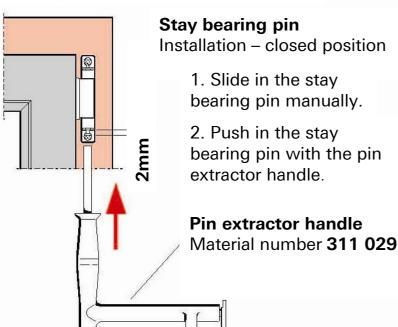
INSTALLATION ADVICE



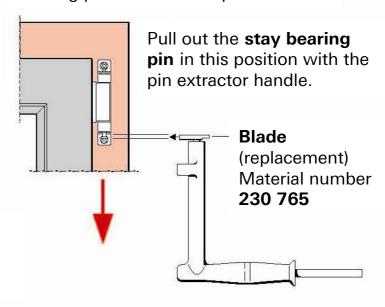
Hinging the sash

It is only possible to **insert** the stay bearing pin in the closed position.



Unhinging the sash

It is only possible to **remove** the stay bearing pin in the closed position.

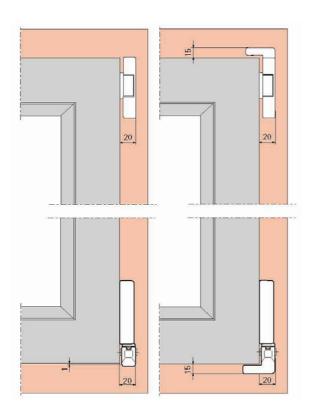


Roto NI

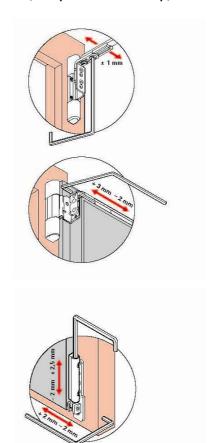
INSTALLATION ADVICE



- Frame clearances (including cover caps):
 - Sash weight100kg
- Sash weight 130kg



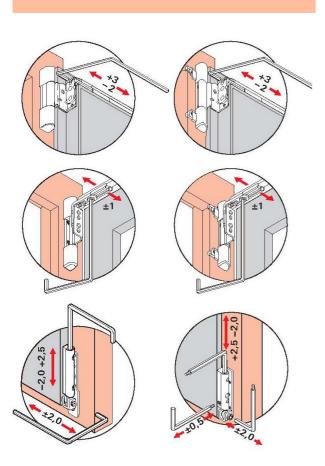
Retro adjustment (only if necessary):



ADJUSTMENT INSTRUCTIONS FOR HINGE-SIDES K & A



PVC windows and balcony doors
Hinge-side K Hinge-side A*



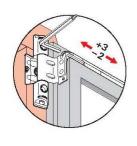
- → Adjusting Roto hardware components may only be carried out by authorised and qualified personnel.
- * The indicated adjusting dimensions change upon use of cover caps (on stay bearing / pivot rest) and corner-rebate-security components).

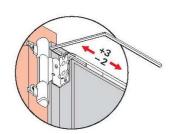
Roto NI

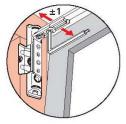
ADJUSTMENT INSTRUCTIONS FOR HINGE-SIDES E5 & A

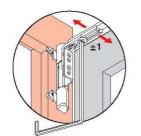


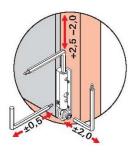
Timber windows and balcony doors
Hinge-side E5 Hinge-side A*

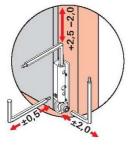












- Adjusting tools:
 - 4mm Allen-key P 010 A 2100.
 - 2.5mm & 4mm Allen-keyP 010 A 2400.





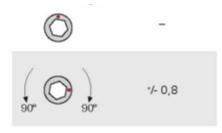
E&PCAM ADJUSTMENT INSTRUCTIONS





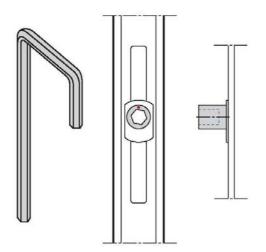
Locking cam P Adjustment range in ° Gasketcompression adjustment in mm

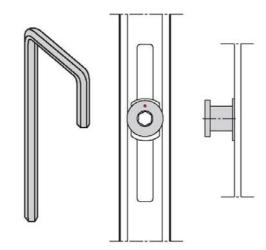
Original position



Original position

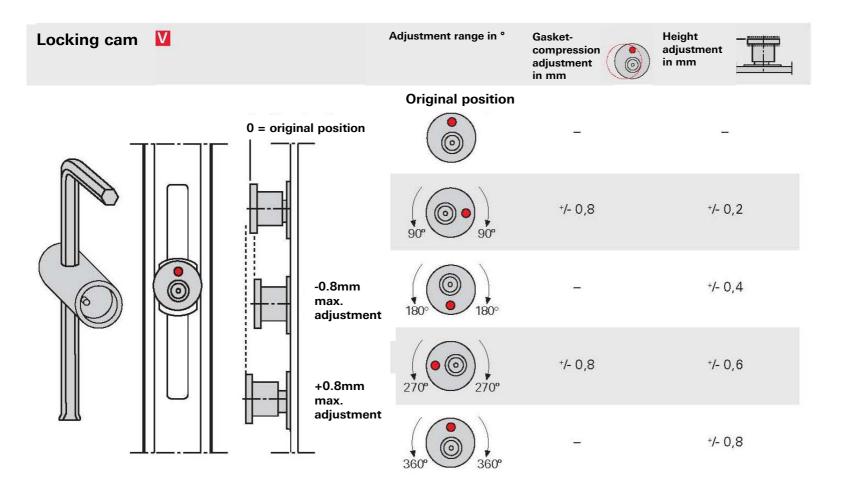






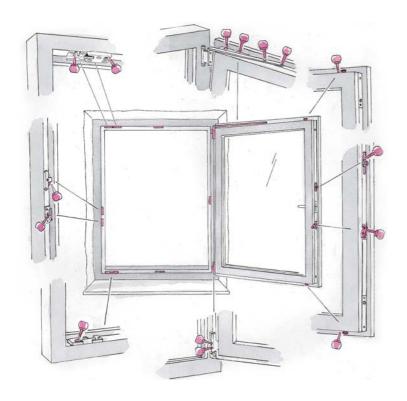
VCAM ADJUSTMENT INSTRUCTIONS





MAINTENANCE INSTRUCTIONS FOR TIMBER / PVC WINDOWS AND BALCONY DOORS



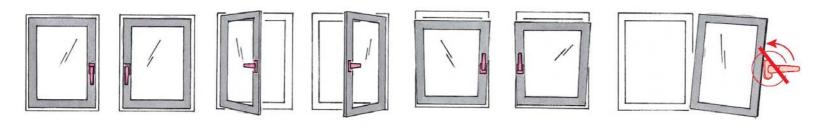


- → By means of regular greasing and oiling* (at least once annually) of all operationrelevant components in the sash and frame, you maintain the smooth operation of your Roto hardware and you protect against premature wear and tear.
- Security strikers made of steel require continuous greasing in order to avoid unnecessary abrasion.
- In addition the individual screws are to be checked.
- Possible loose screws or broken off screwheads are to be tightened or replaced immediately.
- *Please use acid free and non resinous grease and/or oil from a specialised dealer.
- Please contact your specialised dealer with all unclarified points.

OPERATING INSTRUCTIONS FOR TIMBER / PVC WINDOWS AND BALCONY DOORS



Operation

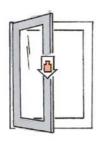


Avoid mishandling

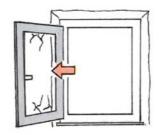
In order to preserve the long operativeness of your window and to guarantee security, it is imperative to observe the directives listed below.

SAFETY INSTRUCTIONS FOR TIMBER / PVC WINDOWS AND BALCONY DOORS





The window sash may not be burdened with additional weight.



Do not allow the sash to hit or press up against the window reveal.



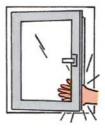
Do not place any objects between the sash and frame.



Where small children or mentally handicapped persons have access to the window, the sash is to be safeguarded against turning, for example with a child-safety lock (inhibits turn-modus, permits tilt-modus) or key-lockable handle.



Do not leave sashes open in the turn-modus during strong winds.



Caution! A slamming sash can lead to injuries.
While closing, do not grasp between the sash and frame.

WHAT TO DO IF ...

The sash brushes up against the frame in the tilt-mode

- Too little clearance

on top



Problem:	Reason:	Rectify by:
The handle can only be turned arduously		
Handle Sash hardware Hardware	 Bad handle Screw fixing is too tight Screws fixed at an angle Fault in the hardware Wrong striker location Sash stay gasket-compression too strong (gasket accumulation) Not lubricated 	 Replacing Loosening the screws Screwing straight Replacing Changing the location Retro-adjusting or cutting out Lubricating
The sash goes into the tilt mode although the handle is in the turn position		
	 Too much clearance on top Check the position of the corner hinge Check the position of the pivot rest 	 Adjusting the corner hinge / set higher (please note: Horizontal Tilt&Turn striker!)

- Lowering the corner

hinge (please note:

Horizontal Tilt&Turn striker!)

WHAT TO DO IF ...



The handle cannot be turned 180°

- Incorrectly mounted Sash hardware - Check the adjustment in turn-

mode (perhaps change - starting with the T&T espagnolette)

Frame hardware - Incorrect striker location - Change the striker location

The sash goes into the turn mode although the handle is in the tilt position

- Damaged Tilt component - Replace

The bottom of the sash brushes up against the frame on the handle side

Manufacturing - Realign - tridimensional - Not produced or glazed at right adjustment

angles

- Sash stay disconnects - Readjust

Installation - Sash sags - Readjust - Frame is offset - Realign

Locking cam brushes up against the striker

- Reinsert Sash - Incorrectly inserted

Frame - Incorrect striker location - Remount