



## 1. Product information and appropriate application

- Window hardware for tilt-turn windows with multipoint locking operated by a single handle.
- The handle operated hardware puts the window in turn position or in tilt position which is restricted by the link arm.
- The gear is intended for windows installed in a vertical plane.
- When closing the window it may be necessary to overcome the resistance of a sealing gasket. Other forms of resistance or obstruction cannot be considered as normal use.
- Special hardware is required for windows with high security against burglary.
- Open windows have only a screening purpose and do not comply with the requirements of wind tightness, water tightness, sound proofing, thermal insulation and high security against burglary.
- The glass should be glazed in accordance with national standards and the general rules of professional skill.

## 2. Inappropriate application

- Sobinco cannot be held responsible for the malfunctioning of the window systems if any non-Sobinco parts are used.
- All parts must be assembled in accordance with the instructions as described in the technical specifications.
- The operating gear should not be tampered with as it may affect the satisfactory operation of the window. In addition obstructions placed within the window opening, which may damage the window, are not permissible.
- Incorrect application can also be defined as any gear modification which causes negative consequences or changes to the installation, the working and the functional character of the window system.
- No additional lever systems or other tools should be used to operate the window.
- The handle should be operated with normal force. If an excessive operating force appears to be necessary, this could result in damage to the system. In this situation a window expert should be contacted to check for any causes that might be effecting the normal operation.
- The window should not be closed with the locking points in the locked position.
- Additional or excessive forces on the window must be avoided.
- Tilt-turn windows should be closed and locked in the event of strong winds and drafts.
- The handle should always be used to close a window. Injury to hands may occur if the sash is gripped to close the window.
- The window hardware is made of corrosion resistant materials, but fittings should not be installed in corrosive atmospheres.



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## SPECIAL TECHNICAL SPECIFICATIONS

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- The surface treatment of vent and frame of aluminium windows must take place before fitting of the gear, as this will affect the working of the fittings. Gear parts must not be treated when treating the vent and frame of timber windows. They must be protected during surface treatment.
- Small joint sealant used on mitres joints should be non corrosive to prevent possible damage to gear components.

### 3. Checking and maintenance of the product

- All safety aspects of the gear should be checked regularly:
  - Fixings of link arm, handle, hinges, corner transmission and wedges.
  - Make sure that the link arm friction is sufficient to keep the window in tilt position without affecting the normal operation of the window. If necessary the friction can be adjusted by the adjustment screw.
  - Check the working of the mishandling device. The handle can only be turned a few degrees when the window is in open position. Certainly do not force the handle.
- All gear adjustments, especially of the hinges and the link arm, the replacement of parts and installation and removing of the vents should be executed by a window expert.
- Maintenance should be carried out at suitable intervals relative to the amount of use and environmental conditions. See the following instructions:
  - Lubricate the locking points with a light oil or grease.
  - Corner transmissions, handles and mishandling device are greased during manufacture and therefore no additional lubrication is necessary.
  - When necessary any dust and dirt must be removed from the perimeter locking components as this could affect the smooth operation of the system.
  - The system must not be cleaned with water and/or other cleaning products as this could affect the lubricants and the corrosion resistance of the gear.