



Aluminum Tilt&Turn (Eurogroove System)  
Fast, Easy and Economic



WINDOW & DOOR SYSTEMS





## Innovative Windows

Vorne with world class production with advanced technology, offers innovative solutions for aluminum windows and doors. Vorne is long-lasting and durable in tough season conditions. Easy installation feature and provides comfort to the user with the possibility of compatibility with all types of windows. In addition, Vorne focuses on continuity in customer satisfaction with the vision that follows industry innovations and always sets new targets.

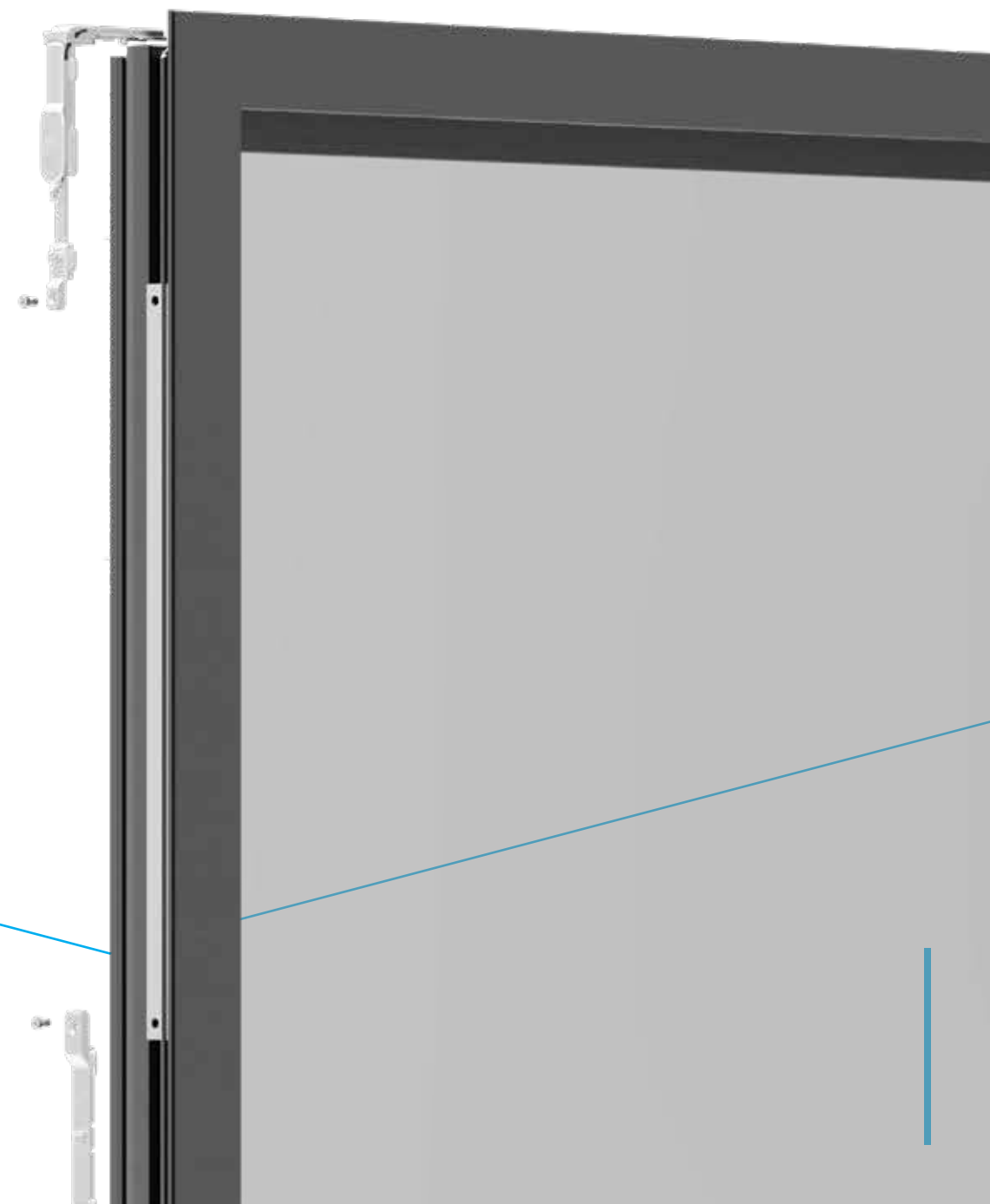
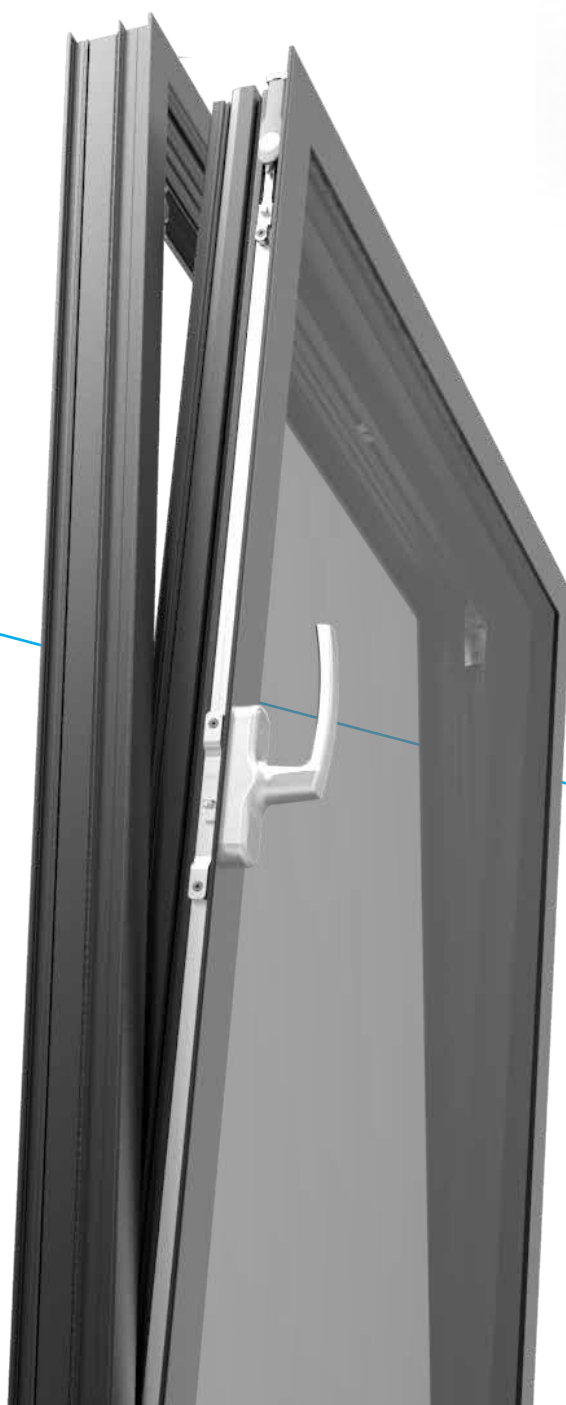
## ■ Features of Aluminum Tilt&Turn (Eurogroove System)

- ▶ Easy gasket pressure settings with the help of adjustable strikers
- ▶ Capable to lift up to 130 kg
- ▶ Is suitable 15/20 frame , 14/18-12/15 sash grooves.
- ▶ Easy to adjust with the custom design hinges
- ▶ Easy to assemble with the ready to install units
- ▶ Color varieties in all RAL options
- ▶ Can be applied to 420 - 1.700 mm sash widths , 500 - 2.600 mm sash heights



## ■ Maximum Montage Ease

Vorne Aluminum Tilt&Turn System provides ease at installation process thanks to the detachable pin mechanism. When assembling the accessories to the window, possibility of dismantling the front group and the lever completely minimizes the unwanted consequences. Easy to demount Frount group and handle, labor cost reduce by this way.





## Durable and Long Lasting

Vorne hinges produced for use in many types of windows, can bear up to 130 kg sash weight. Unlike standard hinges, Mounting of hinges can be done easily with a screwdriver without the need for drilling with the template. Vorne Tilt&Turn System with Bottom and Top Hinge applications; is compatible to adjustments of both directions regarding the bottom hinge. System offers +2 to -1 vertical,  $\pm 1$  mm horizontal adjustment.



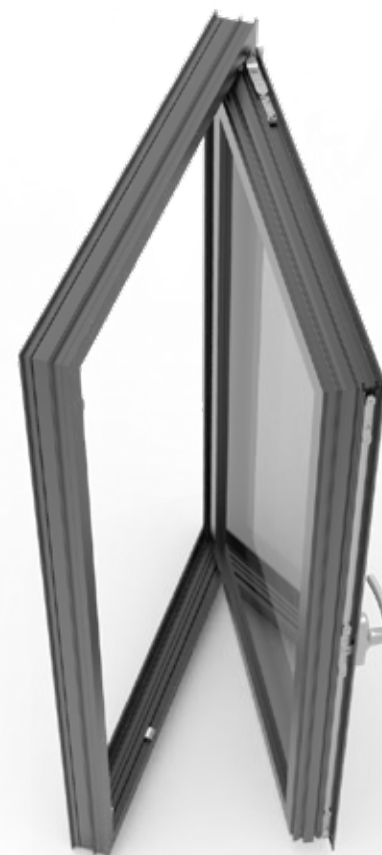
## Lower the Cost

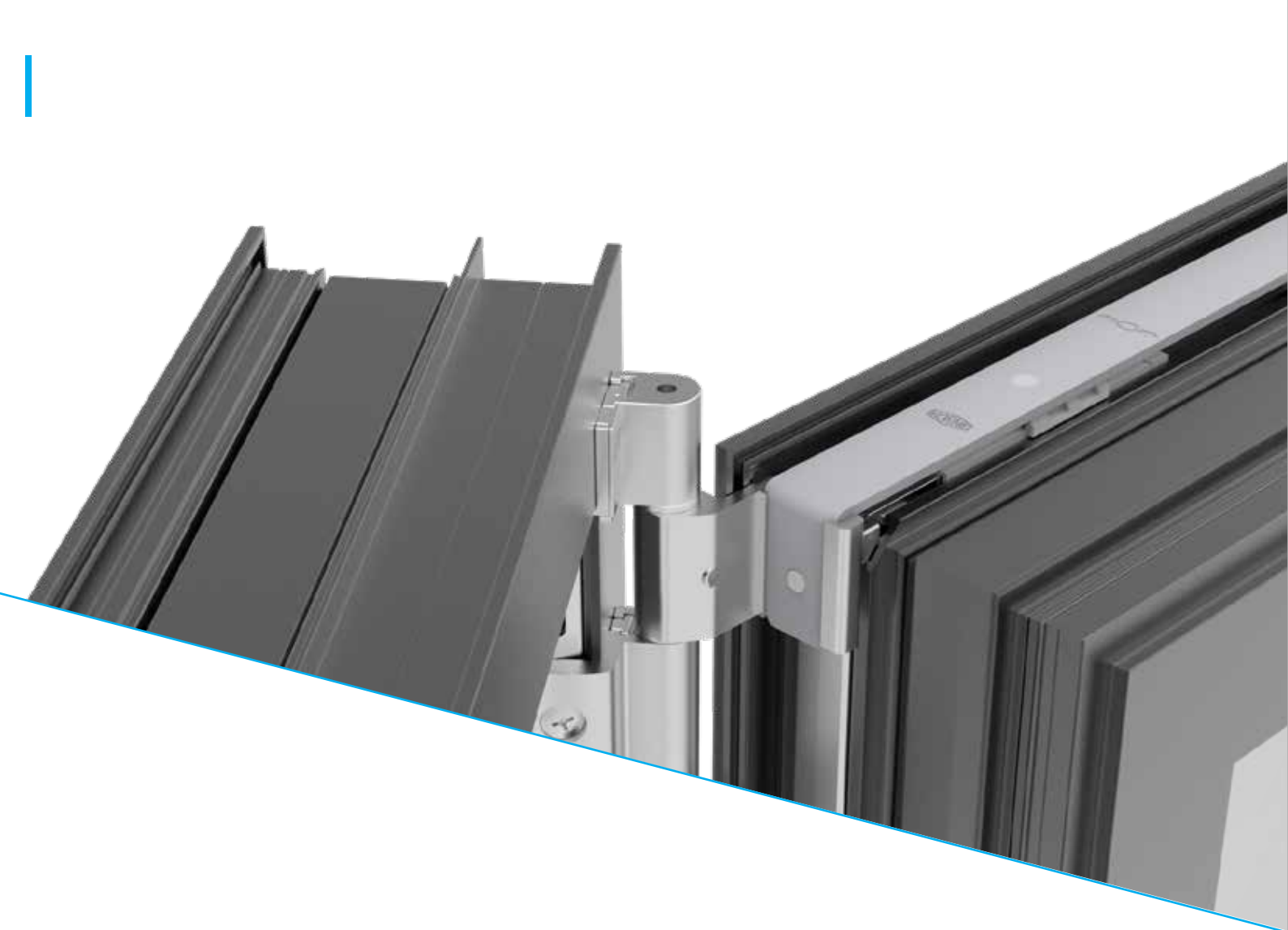
Mishandling Device that prevents misuse of the system is integrated on the Vorne Tilt&Turn System, that's why it can be assembled in a short time without the need of extra tools. As a result costs are reduced as less stock is required.



## Aluminum Tilt&Turn Turn System

Stay Hinge makes Turn System open parallelly, is composed of Stainless Steel (AISI 304). Possibility to make +8 mm gasket pressure setting and + 2mm, -4mm sash horizontal adjustment on Turn Only Stay Hinge.





## Aluminum Tilt&Turn Double Sash System

Aluminum Tilt&Turn, provides wide area opening with double sash feature and gives you a spacious view. The system is consisted of two sashes and clarify better vision , is suitable for systems like turn only , tilt&turn and locked doors. In addition, the lever system of the double sash can be adjustable so it is suitable for use in different profiles. Regarding the system; The main color group is consisted of white, black, brown and silver. It is possible to reach all RAL colors upon request.



## Shotbolt Lever

Provides the movement required to open and lock the active sash in the Double Sash System. Using as a hidden module gives the system aesthetic appearance. It can be adjusted up to 4 mm.



## Always Cozy

Mishandling device on Vorne Aluminum Tilt&Turn System, prevents possible accidents and provides more durable and long lasting windows. The system, which is suitable for right and left use, has the possibility of setting  $\pm 2$  mm. Tested, internationally certified handles are comfortable to use, also product functions silently.



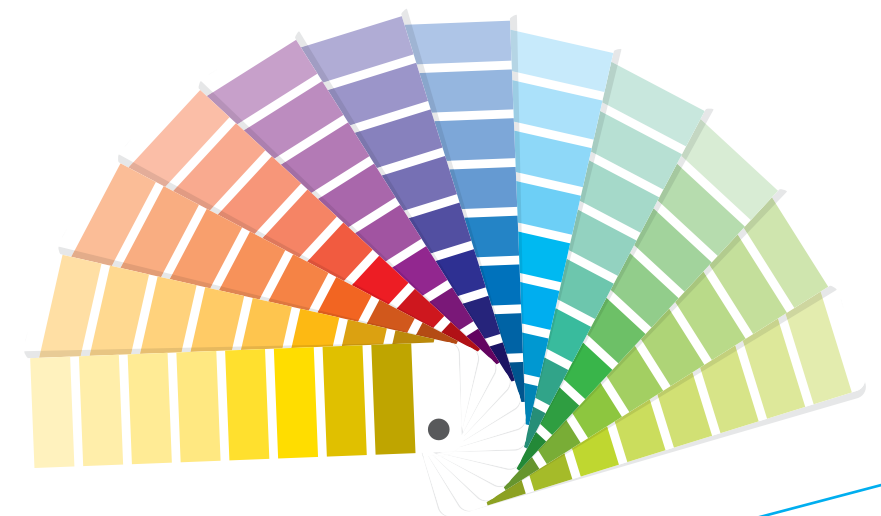
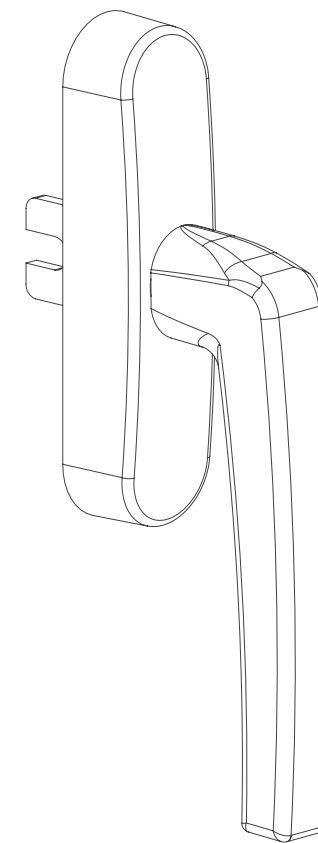


## Window Handle Transmitter

Allows to use the window handle used in PVC systems instead of the one used in aluminum systems. It has an easy installation feature thanks to its removable pin mechanism.

## Wide RAL Color Option

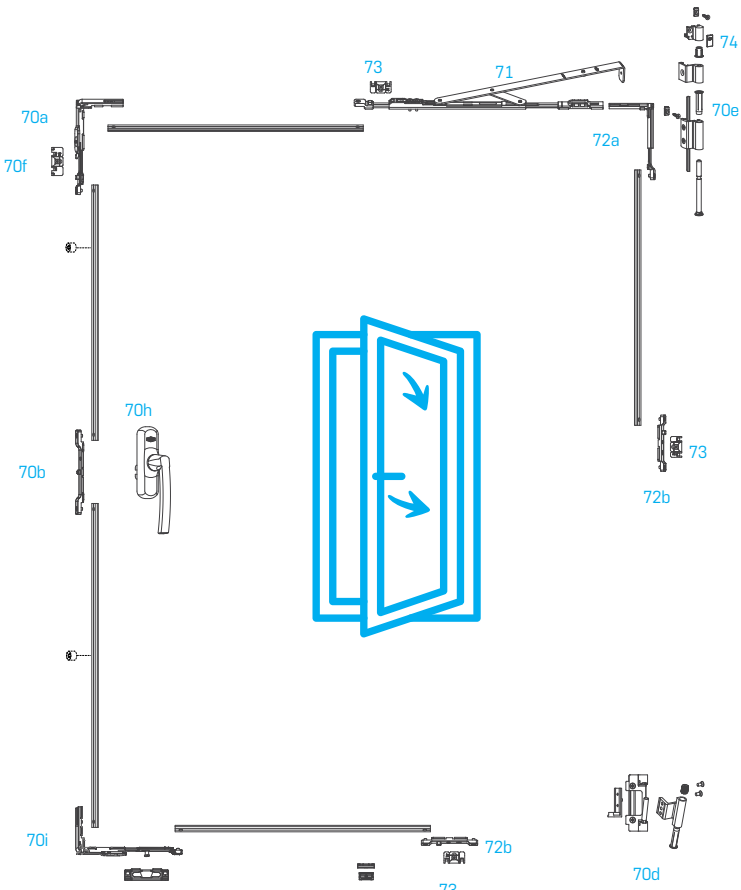
The Handles of the Aluminum Tilt&Turn are in stock consisting white (RAL 9016), black (RAL 9005) and silver (RAL 9006). All RAL colors can be produced as requested. The handles are suitable for both right-left operation.



# Aluminium Eurogroove Tilt&Turn System Chart/ Horizontal Application

**Range of Use**  
Sash Rectangular Width 420 - 1.700 mm  
Sash Rectangular Height 500 - 2.600 mm  
Sash Weight Max. 130 kg

- 70a Corner Slider
- 70b Connector Set
- 70d Bottom Hinge Set
- 70e Top Hinge Set
- 70f Mishandling Device Striker
- 70g Run Up Block
- 70h Window Handle
- 70i Horizontal Tilting Corner Kit
- 70j Horizontal Tilting Striker
- 71 Aluminum Tilt&Turn Stay
- 72a Centre Locking
- 72b Supplemantary Locking
- 73 Striker
- 74 130 kg weight supporter



# Aluminium Eurogroove Double Sash Tilt&Turn System Chart/ Horizontal Application

**Range of Use**  
Sash Rectangular Width 420 - 1.700 mm  
Sash Rectangular Height 500 - 2.600 mm  
Sash Weight Max. 130 kg

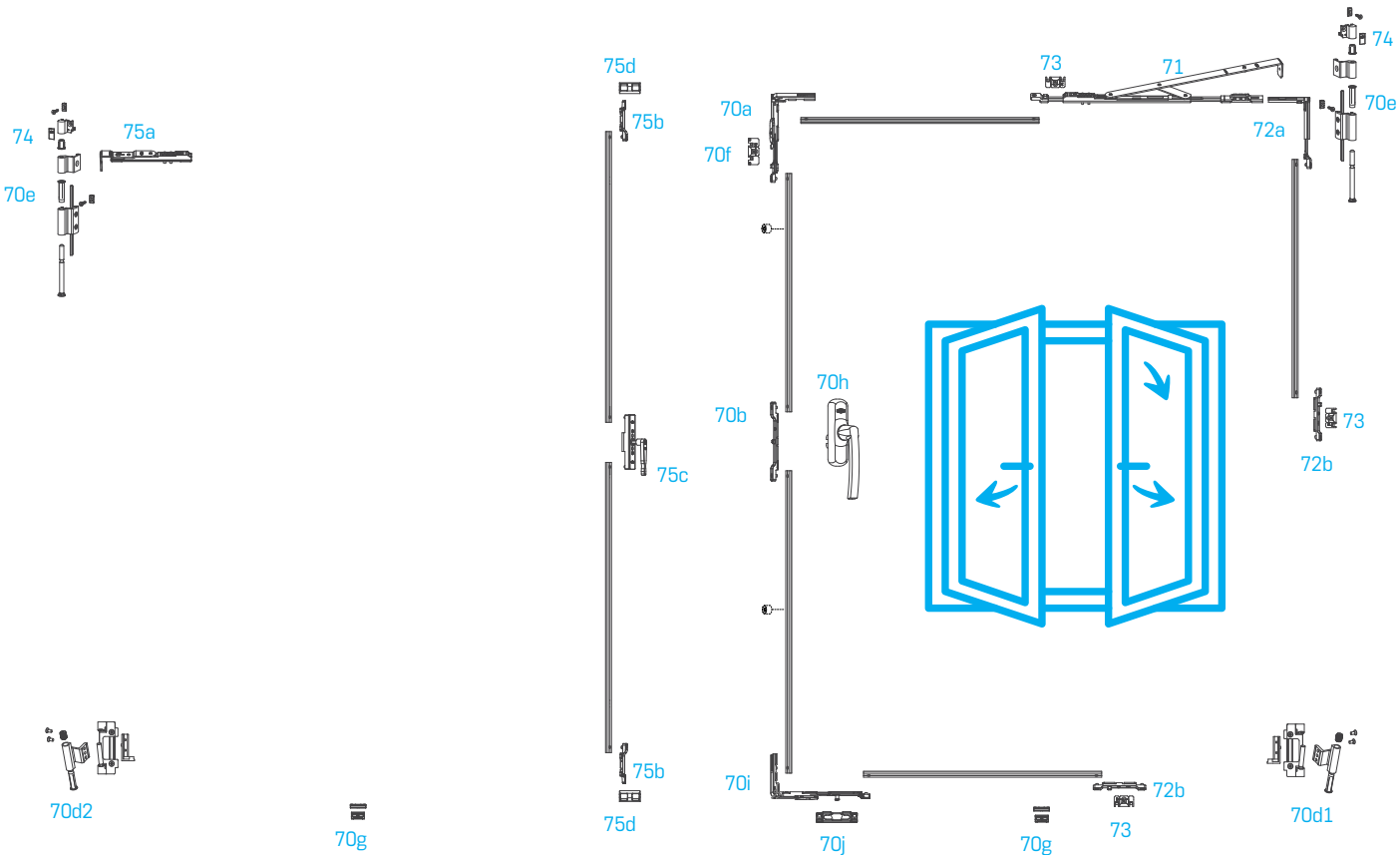
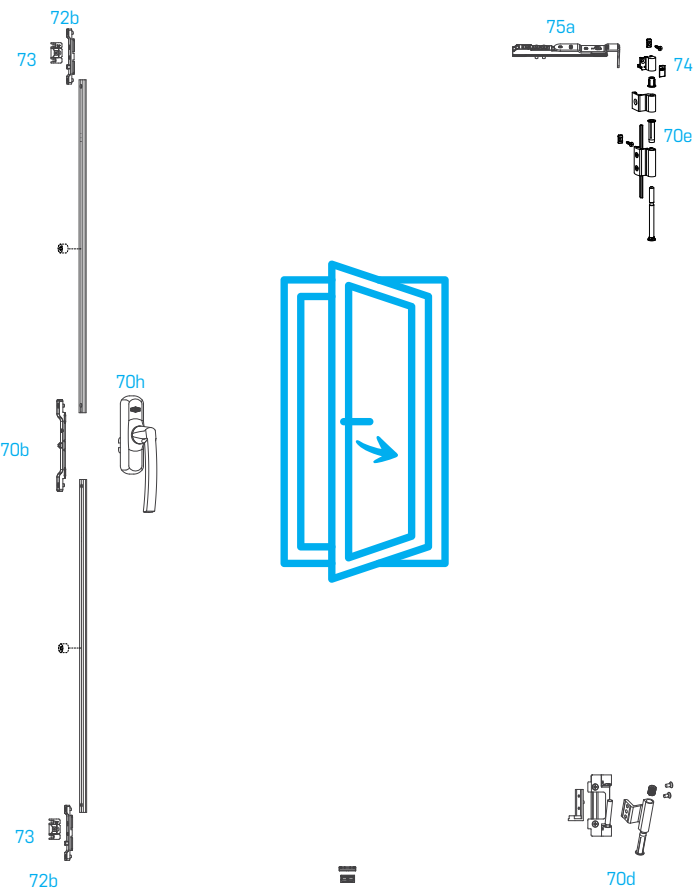
- 70a Corner Slider
- 70b Connector Set
- 70c Bottom Locking
- 70d1 Bottom Hinge Set (R)
- 70d2 Bottom Hinge Set (L)
- 70e Top Hinge Set
- 70f Mishandling Device Striker
- 70g Run Up Block
- 70h Window Handle
- 70i Horizontal Tilting Corner Kit
- 70j Horizontal Tilting Striker
- 71 Aluminum Tilt&Turn Stay
- 72a Centre Locking
- 72b Supplemantary Locking
- 73 Striker
- 74 130 kg weight supporter
- 75a Stay Hinge
- 75b Shootbolt
- 75c Shotbolt Lever
- 75d Corner Lock Striker



# Aluminum Tilt&Turn Turn Only System Chart

**Range of Use**  
Sash Rectangular Width 420 - 1.700 mm  
Sash Rectangular Height 500 - 2.600 mm  
Sash Weight Max. 130 kg

- 70b Connector Set
- 70d Bottom Hinge Set
- 70e Top Hinge Set
- 70g Run Up Block
- 70h Window Handle
- 72b Supplemantary Locking
- 73 Striker
- 74 130 kg weight supporter (Opsiyonel)
- 75a Stay Hinge



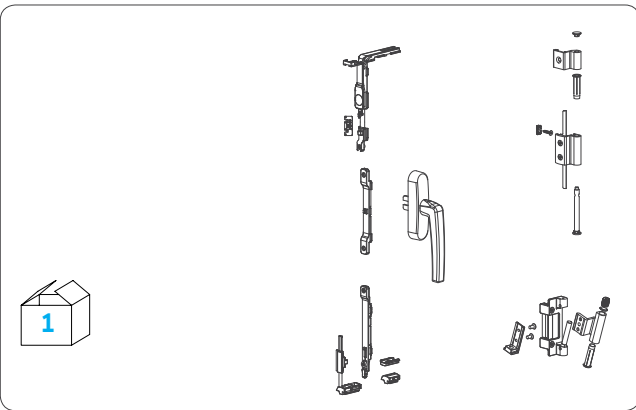


# Aluminum Eurogroove Tilt&Turn System and Contents

Aluminum Tilt&Turn can be ordered in packages according to the system you want, besides the Double sash package ; According to your system, you must order one of the Double Sash Vertical Application package, Double Sash Horizontal Application package, Turn only package and Tilt&Turn Stay Set package.

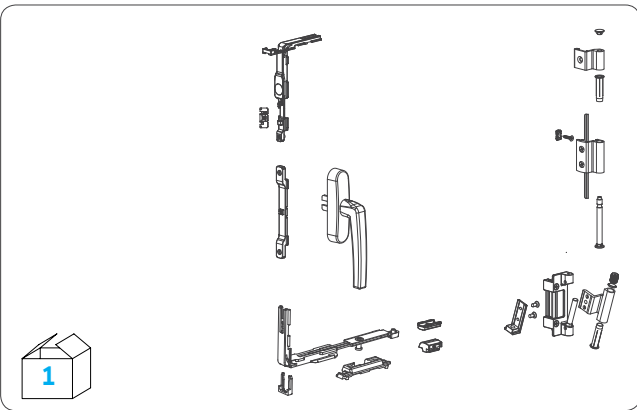
## Tilt&Turn Vertical System Package

- ♦ Bottom Locking
- ♦ Corner Slider
- ♦ Connector Set
- ♦ Bottom & Top Hinge Set
- ♦ Striker
- ♦ Mishandling Device Striker
- ♦ Run Up Block
- ♦ Handle (included or not)



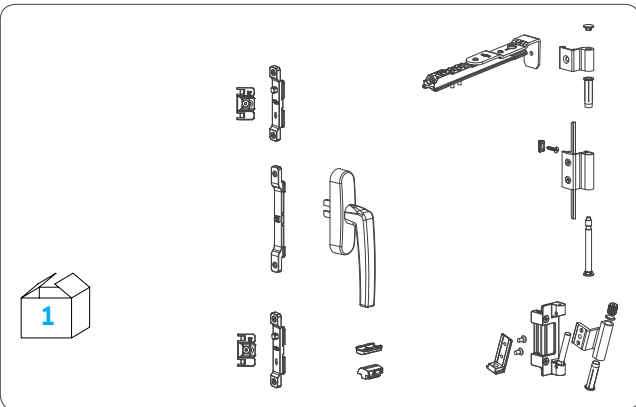
## Tilt&Turn Horizontal System Package

- ♦ Bottom Locking (Horizontal Tilting)
- ♦ Corner Slider
- ♦ Connector Set
- ♦ Bottom & Top Hinge Set
- ♦ Striker
- ♦ Mishandling Device Striker
- ♦ Run Up Block
- ♦ Handle (included or not)



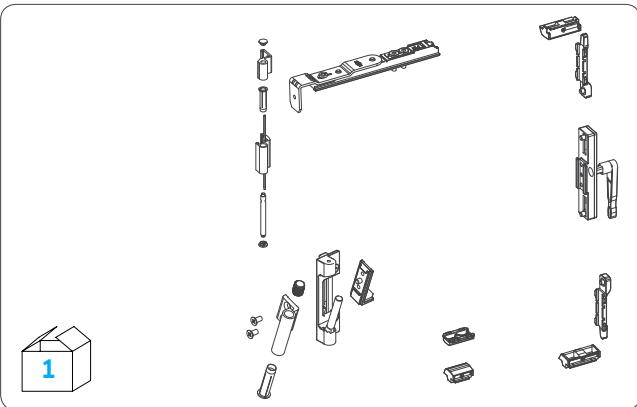
## Turn Only System Package

- ♦ Connector Set
- ♦ Bottom & Top Hinge Set
- ♦ Run Up Block
- ♦ Stay Hinge
- ♦ Supplemantary Locking
- ♦ Striker
- ♦ Handle (included or not)



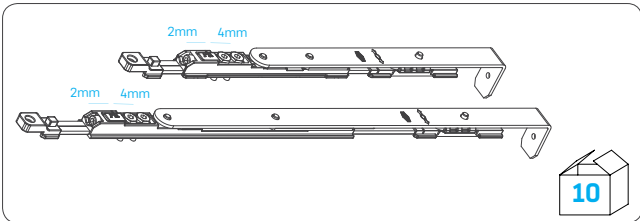
## Double Sash System Package

- ♦ Bottom Hinge Set [L]
- ♦ Top Hinge Set
- ♦ Run Up Block
- ♦ Stay Hinge
- ♦ Shootbolt
- ♦ Shotbolt Lever
- ♦ Corner Lock Striker



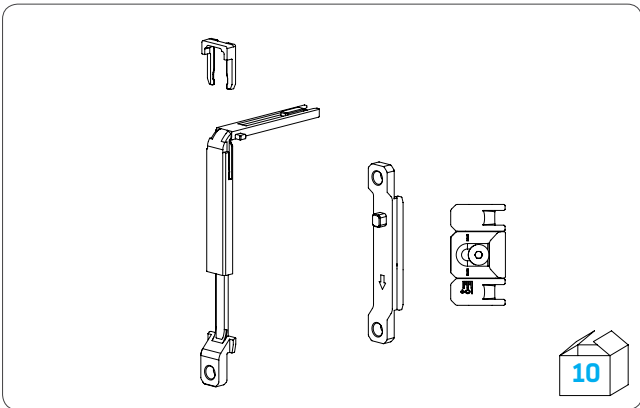
## Aluminium Tilt&Turn Stay

420 - 600mm or  
601 - 1700mm measure ranges

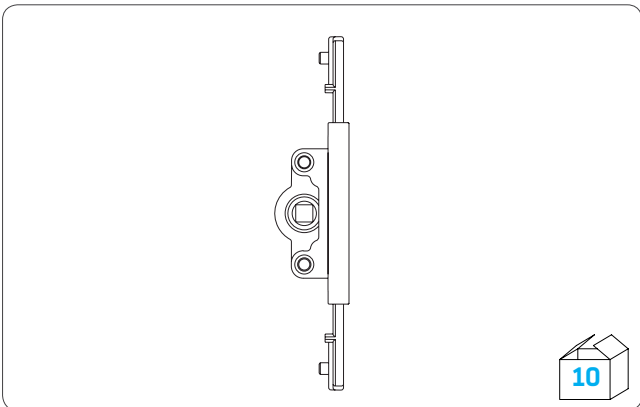


## Centre&Suplemantary Lockings Set(Optional)

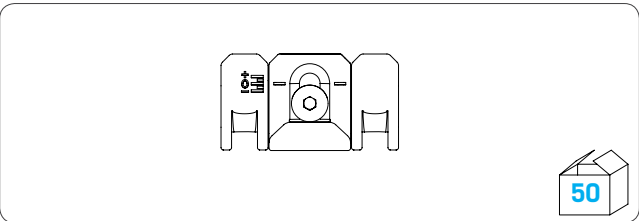
- ♦ Centre Locking
- ♦ Supplemantary Locking
- ♦ Striker



## Hnadle Transmitter (Optional)

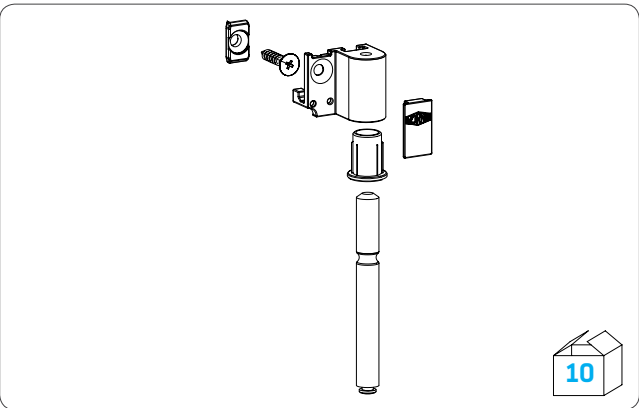


## Striker

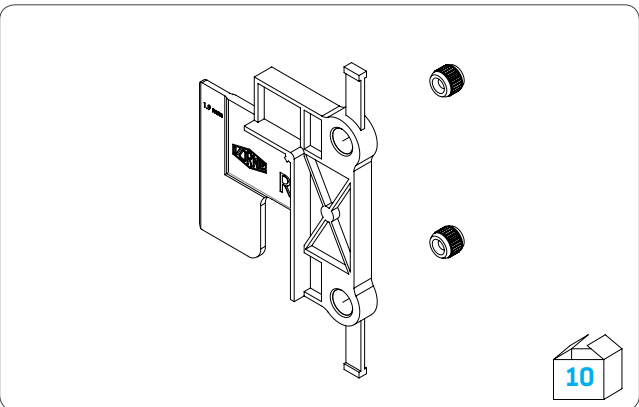


## 130 kg weight supporter (Optional)

- ♦ For Right or Left



## Hinge Template (Optional)





BE ON THE **SAFE SIDE**



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