

The turn-tilt fitting system for every occasion

Winkhaus activPilot



The smart modular system

activPilot

A fitting for all occasions

Achieve maximum results with minimum effort: The unique activPilot window fitting from Winkhaus offers numerous options for customising windows in a cost-effective way. The special feature of the activPilot from Winkhaus is its smart modular system, which allows window manufacturers to fulfil a wide range of homeowners' requirements. Due to the nature of the hardware, flexible and efficient processes can be realised both in window production and on site at the construction site. At the same time, this technology fulfils the highest standards in terms of function, design and security.

The sophisticated system is suitable for a wide range of applications: Whether in new builds, renovations, detached houses, apartment blocks or even commercial properties. This also applies to different building materials such as timber, PVC-U or aluminium. This hardware system offers a suitable selection for each of these materials. Discover the variety of modern window technology with activPilot from Winkhaus – our customised solution for individual design, efficiency and contemporary design, which also meets the highest standards of function and security.

Winkhaus Plus

- + Intelligent modular system
- + Versatile
- + Economic production
- + Easy installation and adjustment
- + Burglar resistance with system certificate



The window fitting system with visible hinges that sets accents

activPilot Concept

Fittings for turn-tilt and turn windows combine functionality, sophisticated security technology and ease of use.

Always on the safe side with resilient technology: the Winkhaus activPilot Concept is a heavy-duty hardware system that effortlessly supports even heavy window elements effortlessly. activPilot Concept is particularly suitable for modern architecture that favours large window areas to allow plenty of light and air into the house. Thanks to its impressive load-bearing capacity, even windows with heavy glazing can be installed without any problems. This also applies to French doors that open the way to the outside. The system's mechanism is extremely smooth-running and supports convenient opening and closing. The sturdy fittings are suitable for burglar-resistant windows up to resistance class RC2. But RC3 windows are also possible. This makes it difficult for uninvited guests. In this way, the durable system for PVC-U, timber and aluminium windows combines reliable functionality, sophisticated security technology and a high level of operating convenience.

Winkhaus Plus

- + Suitable for large and heavy windows and French doors (sash weights: up to 130 / 150 kg)
- + Fulfils the requirements of test class H3 (20,000 movement cycles)
- + Flexibility thanks to modular system
- + Certified quality in accordance with QM 328
- + Optional powder-coated hinge parts

The fully-concealed fitting system for aesthetically sophisticated windows

activPilot Topstar

Makes flush-mounted windows with slim joints and slim frames a reality

The Winkhaus activPilot Topstar window fitting system follows the principle of "less is more" and sets the standard for modern design and contemporary construction. This is how windows are turned into pure minimalists: The window sash is flush with the frame on the inside, leaving only a narrow shadow gap visible. The fitting parts are concealed in the window rebate. High-strength stainless steel on sensitive friction surfaces makes components last longer and smooth surfaces allow easy cleaning of windows. What is more, the energy-saving effect is also increased because the fitting parts do not interrupt the sealing level. With its advanced and robust technology, the fitting system is suitable for design windows made of PVC-U, timber and aluminium.

Winkhaus Plus

- + For heavy sash weights: up to 130 kg for windows and up to 150 kg for door formats
- + For particularly slim frames with small free sizes of the frame
- + Particularly suitable for flush-mounted windows on the inside
- + Energy-saving effect – sealing level is not interrupted
- + User-independent ventilation in accordance with DIN 1946-6 possible thanks to motorised drive

The fitting system for healthy and energy-efficient ventilation

activPilot Comfort

“Opelose” – a new ventilation dimension.

The innovative function of secured parallel action from Winkhaus sets new standards. With this technology, the window sash can be positioned in a parallel position of approx. 6 mm to the frame for ventilation. This fully meets the requirements of modern building owners in terms of security, sustainability and energy efficiency. The innovative window fitting combines protection against break-ins, insects and noise with an efficient supply of fresh air and thus contributes to a healthy indoor climate. Another advantage of the motorised version is the possibility of time-controlled ventilation, which is particularly important for bathrooms in order to reduce moisture.

Winkhaus Plus

- + Parallel action enables ventilation with burglary resistance up to RC2
- + Extremely energy-efficient thanks to uniform supply of fresh air
- + Continuous ventilation ensures a healthy indoor climate
- + With a gap of only 6 mm, pesky insects barely have a chance to enter the house
- + The parallel opening sash is almost imperceptible from the outside



The turn-tilt fitting system for large windows and doors

activPilot Giant

Specially designed for large windows made of PVC-U, timber and aluminium.

Large, floor-to-ceiling windows and patio doors with many functions are a distinctive feature of modern building façades. They are found in private homes, apartment buildings, commercial properties and public buildings. Winkhaus has developed the sturdy activPilot Giant window fitting especially for windows of this size and format. The fitting system can reliably carry very heavy sashes, helps minimise energy losses and offers high security against unwanted visitors. Despite its sleek appearance, the robust technology of activPilot Giant is not immediately recognisable. For example, floor-to-ceiling turn-tilt windows for PVC-U profiles with a sash weight of up to 180 kg can be operated effortlessly. With wooden or aluminium windows, the load-bearing capacity of turn sashes is up to 200 kg. Swing doors can even bear up to 300 kg of weight.

Winkhaus Plus

- + Up to 180 kg sash weight for large and heavy turn-tilt windows made of PVC-U
- + Up to 200 kg sash weight for wooden and aluminium windows
- + Sleek appearance
- + Visible parts available in powder-coated design



A new benchmark in window monitoring systems

activPilot Control

activPilot Control offers several ways of monitoring windows electronically

Windows equipped with activPilot Control fittings automatically detect whether they are open or locked – regardless of whether or not someone is at home. activPilot Control provides intelligent contacts monitoring the window. Depending on the model, the system can even react and control the building services accordingly. The electronic locking sensors are discreetly hidden in the window rebate and remain invisible when the window is closed. There is a range of VdS-certified variants suited for every installation situation: RFID contacts for connection to alarm systems, magnetic contacts for heating control and sensors for extractor hood control. This conserves resources while minimising hazards.



Winkhaus Plus

- + Monitoring, climate control and exhaust air control
- + VdS-certified alarm monitoring (VdS class B or VdS class C)
- + Exhaust air control approved by the DIBt construction institute
- + Easy to integrate into Winkhaus activPilot fittings
- + Not visible from the outside
- + Concealed in the window rebate (seen from the inside) when the window is closed

Increased operating convenience for accessible windows

activPilot Ergo

The activPilot Ergo turn-tilt fitting system with assisted control offers the highest operating convenience for easy opening of difficult-to-access windows

Effortless and accessible window opening: The ergonomic activPilot Ergo turn-tilt fitting system makes everyday life easier. Unlike conventional windows, the handle is located on the lower, horizontal sash profile. The sliding tilt handle with an extended arm makes it significantly easier to operate the window. To rotate the window sash into the turning position, users simply need to turn the handle through 90 degrees. Thanks to the integrated controlled action, the sash only needs to be turned a further 90° to open into the tilt position and no longer needs to be pulled forwards. The handle operation, which does not require a great deal of force, moves the window sash into the tilt position and back again. This is particularly practical for hard-to-reach windows, such as in stairwells.



Winkhaus Plus

- + Automatic tilt opening by turning the handle 180°
- + Conventional turn opening with handle in 90° position
- + For difficult-to-access windows
- + Suitable for the physically impaired
- + Convenient operation even with physical disabilities thanks to easy-to-reach window handle

The ideal fitting system for basement windows and damp rooms

activPilot Comfort PAD

Reliable and continuous ventilation of rooms with high humidity

Fresh air is particularly important in rooms that are sensitive to moisture, such as the basement. There is often little daylight and a lot of ground contact, which can lead to moisture damage, especially if a washing machine and dryer are used regularly. Efficient ventilation is important to prevent this. The activPilot Comfort PAD window fitting with additional parallel action ensures fresh air without draughts, day and night, even when no one is present. The window can be easily operated with the handle. In the parallel position, the fitting system provides extended burglar resistance up to resistance class RC2. In addition, it protects against dirt, leaves and vermin, so there is no need for insect screens, mouse wire or other protective devices.



Burglary attempts thwarted: components for additional security

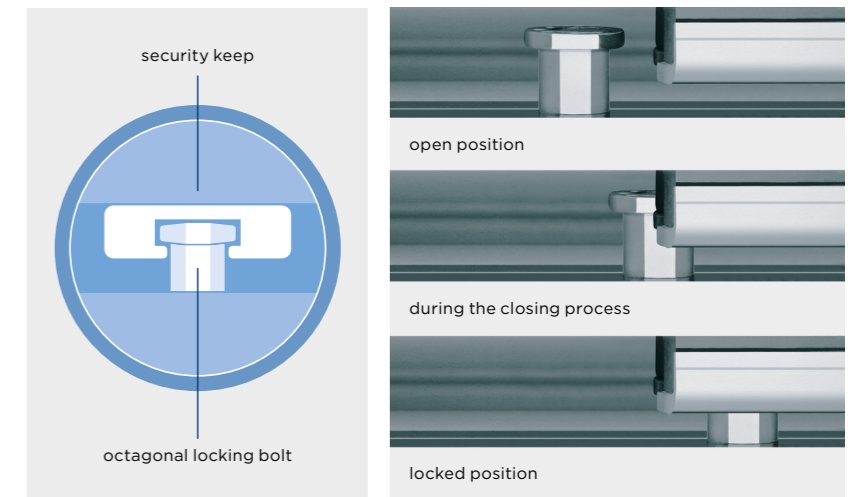
activPilot accessories

Suitable for multiple product variants

Mushroom-head locking system

Winkhaus locks out burglars. With the octagonal locking bolt designed as a mushroom head, Winkhaus offers the option of retrofitting windows and patio doors to suit your security requirements. This safety-relevant component is made of hard steel and can be easily integrated into any activPilot fitting system.

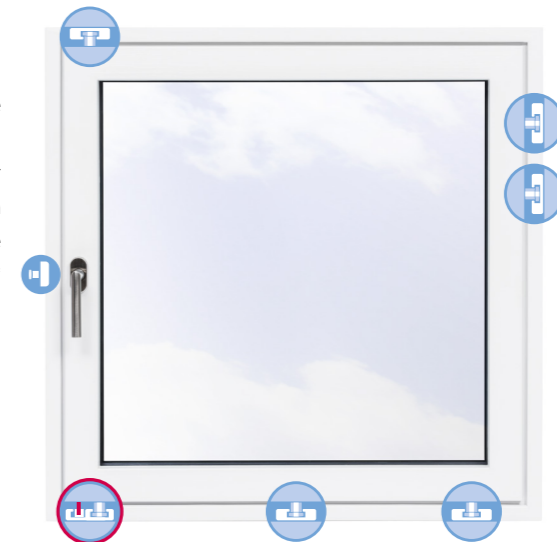
The mushroom-head octagonal locking bolt locks into the security keep on closing the window or door.



Rod locking system SBK.K.SP

The more time a burglar has to spend trying to break in, the more likely it is that he will give up. The additional rod locking system from Winkhaus makes it even harder for burglars. This specific component from Winkhaus withstands the force of more than half a tonne during opening attempts.*

The window security solution combines tried-and-tested activPilot mushroom-head pins, a tilt keep with steel bridge and an automatic rod locking system for robust protection.



* static load of the rod locking system with 5000 N, cf. DIN EN 1628

Quality without compromise

Winkhaus product certification

Winkhaus stands for uncompromising top quality "engineered in Germany". This gives you the security of long-lasting, innovative window technology that you can rely on in the long term. All our products are tested extremely rigorously - from the core functions to the surface. We naturally meet the high requirements of DIN EN ISO 9001 with the aim of ensuring the greatest possible benefit for everyone who uses, processes or operates our technology every day. Internal and external auditors constantly monitor compliance with our high quality standards.

Winkhaus certification process

The QM 328 certification process places high demands on turn and turn-tilt fittings. The tests are carried out in accordance with EN 13126-8 (endurance test for turn and turn-tilt fittings) and EN 1191 (endurance test for windows and doors) standards. We also have our products and processes monitored regularly by independent testing institutes.

Winkhaus expertise - a tradition of innovation

Winkhaus has offered uncompromising commitment to quality since 1854 and is very successful indeed. We have continuously made advances in quality standards for window fittings, security door locking systems and access control thanks to our numerous innovations.

All activPilot variants at a glance

Optimal security, flexibility and performance for every requirement.

	activPilot Concept	activPilot Topstar	activPilot Comfort	activPilot Giant	activPilot Ergo
Concealed hinge side	no	yes	no	no	no
Surface-mounted hinge side	yes	no	yes	yes	yes
Sash weight	up to 150 kg	up to 150 kg	up to 100 kg	up to 200/300 kg*	up to 80 kg
Sash rebate height	230-2800 mm	230-2800 mm	695-2300 mm	1000-3000 mm	460-2210 mm
Sash rebate width	270-1725 mm	380-1475 mm	460-1475 mm	510-1600 mm	460-1200 mm
Endurance tested to EN 13126-8, EN 1191	yes	yes	yes	yes	yes
For turn-tilt, tilt-before-turn, turn, tilt and double-sash windows	yes	yes	no	yes	yes
For PVC-U, timber and aluminium profiles	yes	yes	yes	yes	yes
Locking surveillance/activPilot Control	optional	optional	optional	optional	optional

* For turn windows up to 300 kg, for turn-tilt windows up to 200 kg.

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