

TechNews

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activPilot Sprint

The new turn-tilt fitting for screwdriving automation

As an innovation leader in fitting systems for automated processing, Winkhaus offers well-engineered solutions which improve efficiency for window building companies. The new turn-tilt fitting activPilot Sprint is in line with a trend towards greater flexibility in window production. This newly-developed product is

optimally matched to manufacturing processes which use automatic screwdriving units. Manufacturers benefit from its easy installation, quicker processing and extensive versatility in adapting to different automation stages.

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activPilot Sprint

For attachment to windows using a screwdriving unit.

The new activPilot Sprint fitting system was especially developed to support processing with automatic screwdriving units. It enables a single employee to mount sash fittings at the rate of one a minute.

Manufacturing concept

The fitting installation step should be perfectly integrated into window production processes. To do so, the sash attachment process needs to be matched to upstream and downstream production steps. The process must also remain flexible in order to cope with peaks in orders without incurring additional expense of extra work hours or personnel. However, the employee must also have time to secure their supply of materials and attend to the automatic screwdriving unit.

Attachment concept

Sash attachment is divided into two production steps – installation of the fitting and screw fastening of the fitting. The sash fit-

ting, including the shear, is first clicked into the sash by hand. The sash is then transferred to the screwdriving unit where the fitting is screwed into position on the sash.

Hardware concept

activPilot Sprint was especially developed to ensure that sash-side fitting components could be quickly clicked into place. In order to reduce the production steps for sash attachment and thus optimally match the time required for attachment to production process cycle times, individual components have been combined into assembly groups, which can be effortlessly fitted into position. As a result of these assembly groups, the number of coupling points has been reduced to a minimum.

Winkhaus Plus

- + Compact product range based on activPilot Concept
 - + Specially designed for use on screwdriving units
 - + Reduction in time required for attachment as screwdriving process is completed automatically.
 - + Time required for fitting attachment is matched to production process cycle times
 - + Reduction in the number of components which need to be inserted into the sash
-



All components feature clamping mechanisms for instant attachment into the fitting groove



Drive rods with pre-assembled dual-function element as a standard feature



Anti-Slam Device ZSS enables shears to be installed before they are fastened with screws

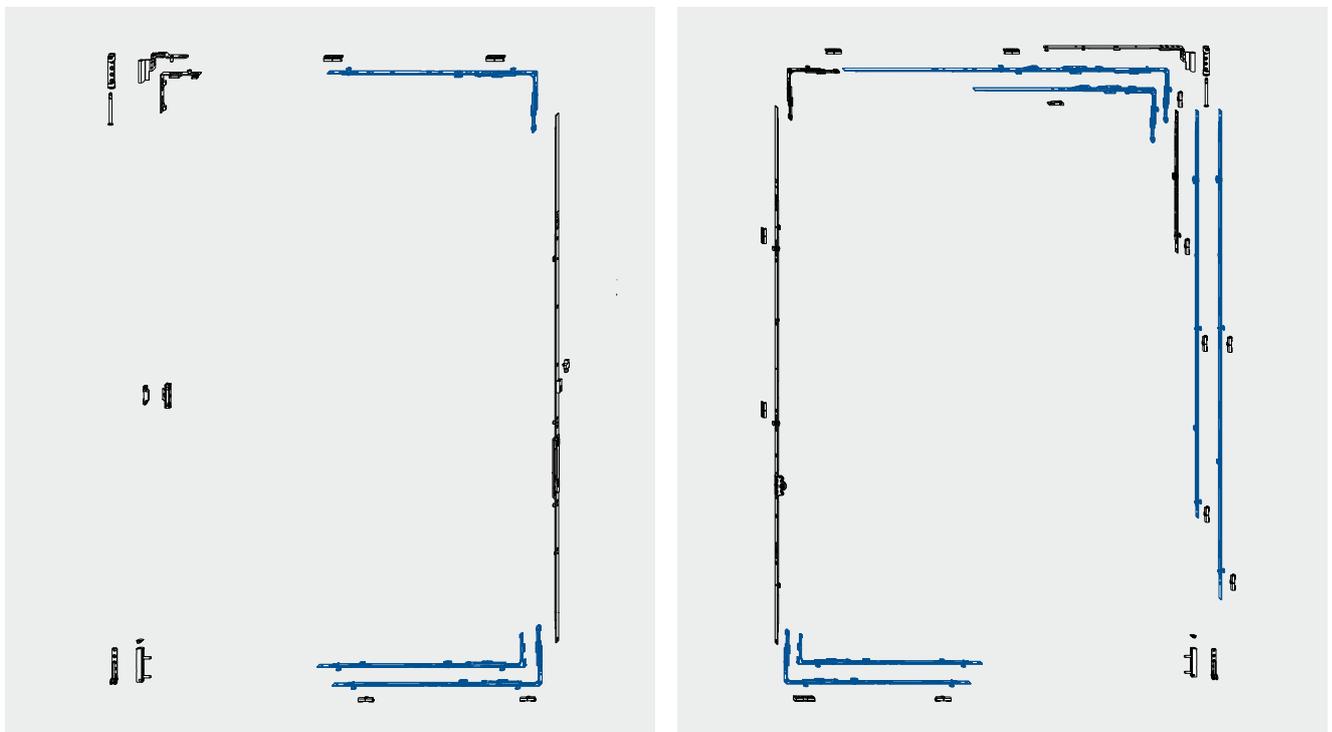
When components are securely clipped into place, the sash can be safely passed on to the screwdriving unit.

activPilot Concept – a modular basis

The activPilot Sprint design is based on the standard turn-tilt fitting activPilot Concept. Components are matched with one another in such a way that the fitting can be used for all known application areas and weight categories. The customary security levels found in activPilot Concept, resistance classes WK1 and WK2, can also be implemented in activPilot Sprint. No special components are required. Sash weights up to 150 kg are no problem if the fitting is combined with activPilot Select.

Integrated additional functions

A few sophisticated features ensure that the time required for attachment is reduced even further. For instance, the combined top rods and corner drives are fitted with an anti-slam device as standard. This enables shears to be mounted before the screw fastening process since the shear can be maintained in the tilt position, thus ensuring the screw positions on the top rod are easily accessible for the screw fastening tool. The drive rods are also available with preassembled dual and triple-function elements, which perform the functions of a fail-safe device and a sash lifter, or also of a balcony door catch.



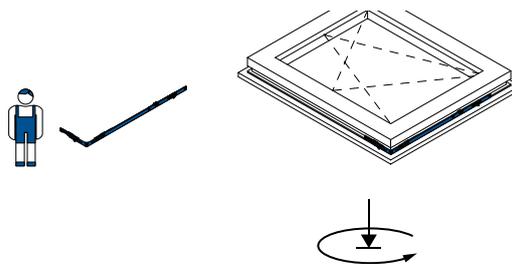
Work processes are reduced as the top rod and corner drive are joined together and the interlocking rods form a single piece in lengths of 1250 mm, 1450 mm and 1750 mm. A combined corner drive and interlocking rod is used horizontally along the bottom.

activPilot Sprint

Attachment to the window sash in five easy steps.

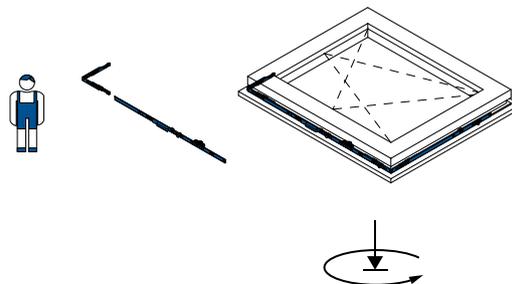
Step 1:

Insert component in the lower section



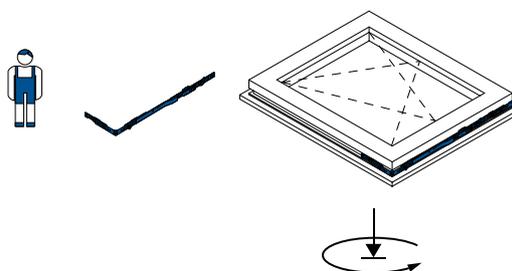
Step 2:

Insert drive rod and top corner drive



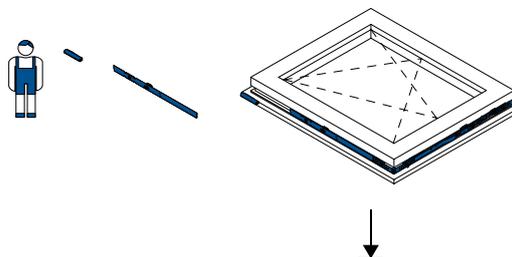
Step 3:

Insert top rod. Shear can also be slotted directly into position.



Step 4:

Insert hinge-side interlocking rod and sash hinges



Step 5:

Fasten screws using the automatic screwdriving unit

