


**NEXT DAY
DESPATCH**

**SOLE UK
IMPORTER**
**100 SERIES
COMPATIBLE**
**IP55
RATED**
**IP66
OPTION**
**SYNCHRO
OPTION**

 REPLACEMENT
 OPTION FOR THE
ACK4
 (DISCONTINUED)

Chain

24V or 230V

300N/30 kg

106mm to 400mm ADJUSTABLE
**DO NOT USE FOR
SMOKE VENTILATION**

 If you do require smoke control
 products or advice – please call us

ABOUT THIS ACTUATOR

The TOPP ACK5 (replacing the ACK4) uses a double link, central exit, articulated stainless steel chain enclosed in a die-cast aluminum casing. Fixed and swivel bracket options to suit most window types. Adjustment dial located on both sides of actuator.

PRODUCT HIGHLIGHTS

- ✓ Top selling actuator for last 15 years
- ✓ Seven position adjustment options
- ✓ Double insulated electronics
- ✓ Buzzer indicates incorrect installation
- ✓ Synchronisation option available
- ✓ CE marked device

SUITABLE FOR...

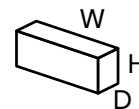


COLOUR OPTIONS

- Black
- White
- Silver
- Bespoke colours on request

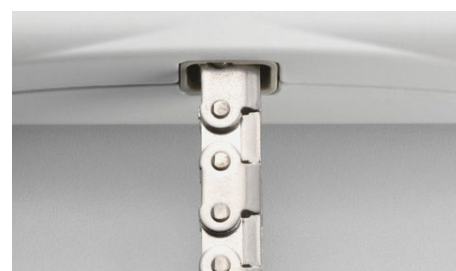
ACTUATOR DIMENSIONS

WIDTH: 280mm
 HEIGHT: 47mm
 DEPTH: 83mm


TECHNICAL DATA >>>
PRODUCT CODES >>>

24 HR TECHNICAL DATA

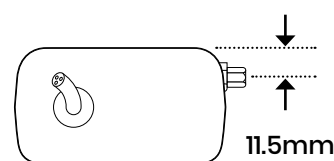
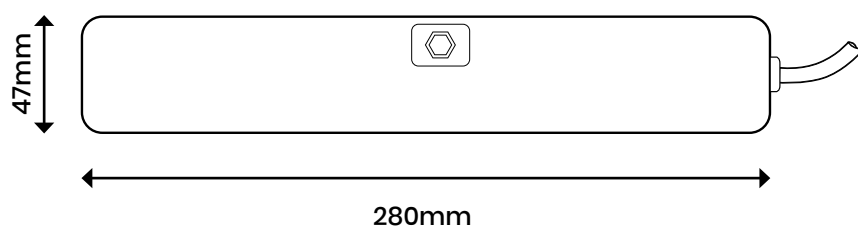
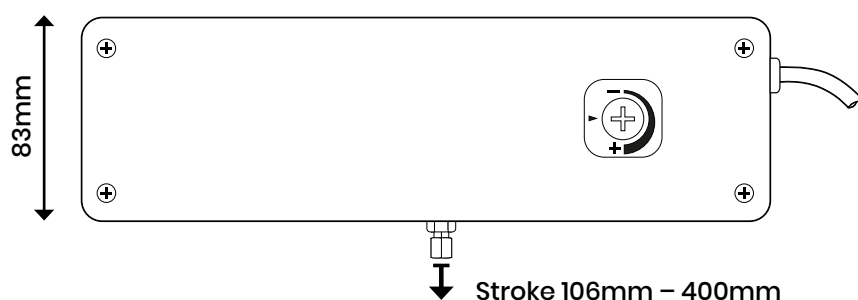
	TOPP ACK5 24V	TOPP ACK5 230V
Voltage Supply	24V	230V
Thrust Force	300N/30 kg	300N/30 kg
Traction Force	300N/30 kg	300N/30 kg
Stroke Adjustment	Seven Positions. 106, 150, 200, 250, 300, 350 or 400mm	
Maximum Window Frame Height	Top hung window 600mm / Bottom hung window 800mm	
Minimum Window Width	350mm	350mm
Maximum Window Width	1300mm (use an actuator with two pushpoints if wider)	
Absorbed Current	1.35 amps	0.32 amps
Power	32 watts	75 watts
Operating Temperature	-5°C to +50°C	-5°C to +50°C
Time Rating	S ₂ of 3 min	S ₂ of 2 min
Limit Stop	Electronic	Electronic
Safety Stop	Electronic	Electronic
Wiring	2 Core + Earth	3 Core + Earth
Speed	~ 17mm/s	~ 27mm/s
Double Insulated	No	Yes
IP Protection Class	IP55 standard – IP66 available (fixed stroke)	
Synchronisation Option	Yes with S version (two actuators on the same window)	
Parallel Connection Option	Yes with S version	Yes with S version
Weight	1.9 kg	1.9 kg
Cable Length (standard)	1.5m	1.5m



WHAT'S IN THE BOX?

- ✓ TOPP ACK5 Actuator
- ✓ Upper Bracket Connecting Pack
- ✓ Fitting/Drilling Template
- ✓ Installation and User Guide
- ✓ Safety Plate

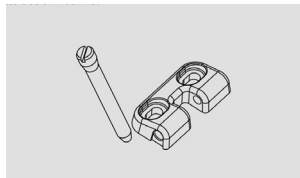
DIMENSIONS



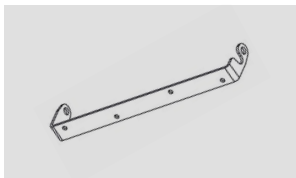
PRODUCT CODES >>>

BRACKET & ACCESSORY CODES

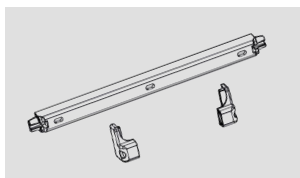
*Special orders available on request



Upper Bracket Pack (included)
Mill AXTO-ACK-BUPP-MI01



Long Bar Swivel Bracket
Black AXTO-ACK-BLBS-BL01
White AXTO-ACK-BLBS-WH01
Silver/Grey AXTO-ACK-BLBS-SI01
Mill AXTO-ACK-BLBS-MI01*



Long Bar Bracket
Black AXTO-ACK-BLBA-BL01
White AXTO-ACK-BLBA-WH01
Silver/Grey AXTO-ACK-BLBA-SI01
Mill AXTO-ACK-BLBA-MI01



U-Shaped Bracket (pair)
Black AXTO-ACK-BUSH-BL01
White AXTO-ACK-BUSH-WH01
Silver/Grey AXTO-ACK-BUSH-SI01
Mill AXTO-ACK-BUSH-MI01



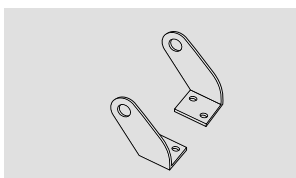
Large Swivel Bracket (pair)
Black AXTO-ACK-BLSW-BL01
White AXTO-ACK-BLSW-WH01
Silver/Grey AXTO-ACK-BLSW-SI01
Mill AXTO-ACK-BLSW-MI01



Inward Opening Bracket
Black AXTO-ACK-BINW-0001



Small Swivel Bracket (pair)
Black AXTO-ACK-BSSW-BL01
White AXTO-ACK-BSSW-WH03
Silver/Grey AXTO-ACK-BSSW-SI01
Mill AXTO-ACK-BSSW-MI01



QS Swivel Bracket (pair)
Black AXTO-ACK-BQSW-BL01
White AXTO-ACK-BQSW-WH02
Silver/Grey AXTO-ACK-BQSW-SI01
Mill AXTO-ACK-BQSW-MI01

ACTUATOR CODES

ACK5 24V

Black	AXTO-ACK-024V-BL04
White	AXTO-ACK-024V-WH09
Silver/Grey	AXTO-ACK-024V-SI08
Mill	AXTO-ACK-024V-MI04

ACK5 230V

Black	AXTO-ACK-230V-BL08
White	AXTO-ACK-230V-WH10
Silver/Grey	AXTO-ACK-230V-SI08
Mill	AXTO-ACK-230V-MI10



ACK5 Synchro Option
Available on request

230V

RELATED PRODUCTS AND SERVICES

24V



VENTEC 100
SERIES CONTROL



VENTEC DS
SWITCH



230V TF SERIES
CONTROL



PROJECT
COMMISSIONING



INSTALLATION
& MAINTENANCE

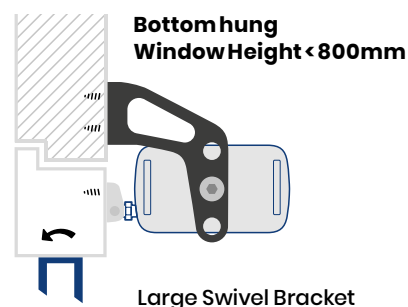
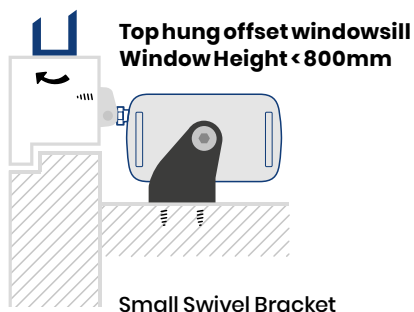
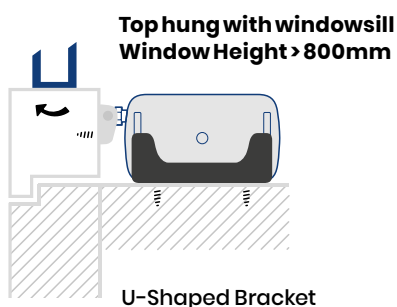
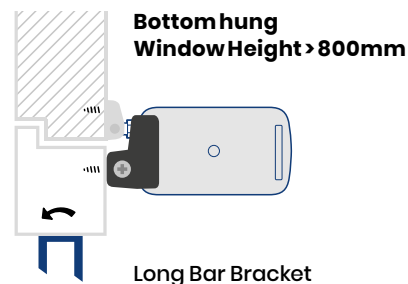
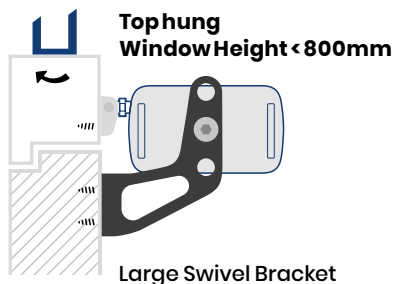
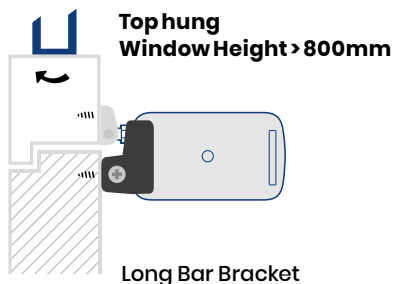


24V TF SERIES
CONTROL

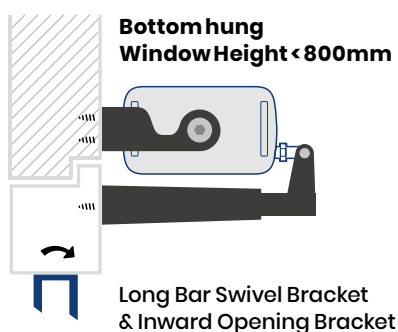
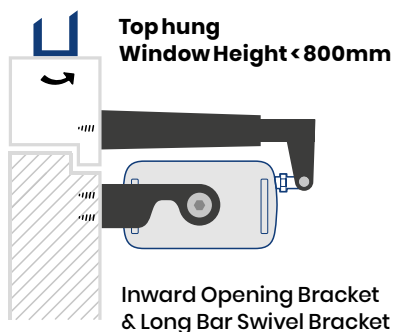
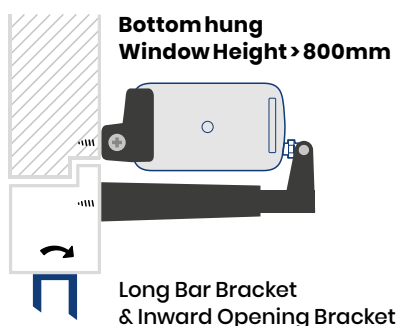
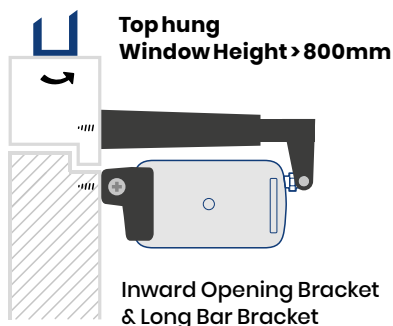


WEATHER
STATION

OUTWARD OPENING INSTALLATION EXAMPLES



INWARD OPENING



CHOOSING A FIXED OR SWIVEL BRACKET?

For top hung or bottom hung windows, **LESS THAN 800mm** in height, use swivel brackets.

Always read the manufacturer's instructions prior to installation.

WINDOW OPERATION FORCE CALCULATION

TOP, BOTTOM OR PIVOT HUNG WINDOWS

The formula for calculating the load the actuator has to move for top hung, bottom hung and pivot windows is the following:

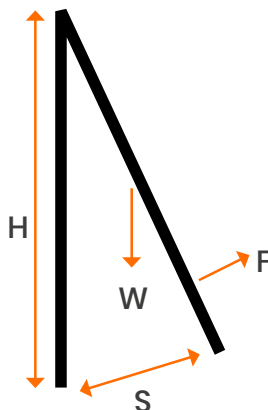
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

F = Force required (N)

W = Weight of the window (kg)

S = Opening stroke (mm)

H = Height of the window (mm)



EXAMPLE: 60 kg Weight / 1000mm Height / 500mm Stroke

$$F = 60/2 \times 500/1000 \times 10$$

$$F = 30 \times 0.5 \times 10$$

$$F = 150 \text{ newtons}$$

IMPORTANT: For installation on a pivoting window the given height is to be considered H/2.

IMPORTANT: The indicated loads do not include the force exerted by wind or other extreme weather conditions. If the actuator is to be installed in areas that may be subject to these conditions, contact our technical department to discuss your requirements.

The actuator rotation angle is usually half the height of the opening angle of the window. Check that there are no obstacles to the rotation of the actuator in order to prevent damage to it.

For actuators with non pivoting brackets, the height of the window must not be below a certain height (see individual product details) in order to prevent excessive chain bending. Please contact our sales support team for more details.

If the window width is greater than 1.5m we suggest using an actuator with two thrust points.

DOMES AND SKYLIGHTS

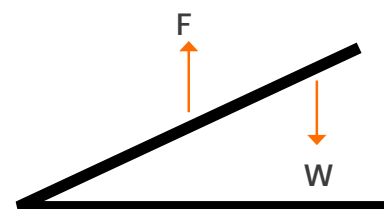
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

The formula for calculating the load the actuator has to move for domes and skylights is the following:

$$F = \frac{W}{2} \times 10$$

F = Force required (N)

W = Weight of the window (kg)



EXAMPLE: 110 kg Weight / 1000mm Height / 500mm Stroke

$$F = 110/2 \times 10$$

$$F = 55 \times 10$$

$$F = 550 \text{ newtons}$$

SKYLIGHTS: The opening can be hung on one side or have a central axis of rotation. In the latter case, you have to consider the distance between the axis of rotation and the point of application of the actuator as the frame height. A Velux type of opening on a horizontal roof or roof sloping up to 30° horizontally weighs 50% on the hinges and 50% on the actuator. In the case of centre rotation, the weight is practically nothing and is determined only by the windows frictions.

If the window width is greater than 1.5m we suggest using an actuator with two thrust points.



IMPORTANT: If the window frame is accessible, or installed at a height of less than 2.5m from the ground, an emergency stop system must be fitted to prevent the crushing or entrapment of clothing or body parts inserted between the moving and fixed elements of the window frame.