



**NEXT DAY
DESPATCH**



**UK
IMPORTER**

**100 SERIES
COMPATIBLE**

**IP20
RATED**



Chain



24V, 230V or 110V available



Up to 400N/40 kg



450, 600, 800 or 1000mm **OPTIONS**

**DO NOT USE FOR
SMOKE VENTILATION**



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



ABOUT THIS ACTUATOR

The UCS Supermaster electric actuator, with reinforced double-link chain housed inside the actuator body is available in 24V and 230V options. Bracketless installation is achievable on windows with a windowsill. For windows without windowsill a fixing bracket (fits into the dovetail slide) is available. A red light on the actuator body signals the closed position. Clean aesthetics and flexible fixing options make this an ideal choice for most window and skylight applications.

PRODUCT HIGHLIGHTS

- ✓ Very high speed
- ✓ Noiseless operation
- ✓ 800mm stroke (and higher) suitable for bottom hung windows only
- ✓ Supplied with a wired terminal board (1.5m cable)
- ✓ Red LED signals the closed position
- ✓ CE marked device

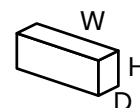
SUITABLE FOR...



COLOUR OPTIONS

- Silver
- White
- Bespoke colours on request

STANDARD ACTUATOR DIMENSIONS



WIDTH: 549mm (450mm Stroke)
650mm (600mm Stroke)
754mm (800mm Stroke)
860mm (1000mm Stroke)

HEIGHT: 50mm

DEPTH: 80mm

TECHNICAL DATA >>>

PRODUCT CODES >>>

BRACKET & ACCESSORY CODES



Upper Bracket Pack (included)
Connects to window/frame



Aluminium Pivoting Dovetail Bracket
AXUC-SIN-BPIV-MI01



Sliding Aluminium Bracket with Shim Spacer
AXUC-SUP-BSLI-MI02



Aluminium Fixing Bracket (Inward Opening) & Sliding Aluminium Bracket Kit
AXUC-SUP-BSLI-MI01

ACTUATOR CODES

Supermaster 24V – 450mm Stroke

Silver	ACUC-SUP-024V-SI01
White	ACUC-SUP-024V-WH01
Dark Brown	ACUC-SUP-024V-DB01
Mill	ACUC-SUP-024V-MI01

Supermaster 24V – 600mm Stroke

Silver	ACUC-SUP-024V-SI02
White	ACUC-SUP-024V-WH02
Dark Brown	ACUC-SUP-024V-DB02
Mill	ACUC-SUP-024V-MI02

Supermaster 24V – 800mm Stroke

Silver	ACUC-SUP-024V-SI03
White	ACUC-SUP-024V-WH03
Dark Brown	ACUC-SUP-024V-DB03
Mill	ACUC-SUP-024V-MI03

Supermaster 230V – 450mm Stroke

Silver	ACUC-SUP-230V-SI01
White	ACUC-SUP-230V-WH01
Dark Brown	ACUC-SUP-230V-DB01
Mill	ACUC-SUP-230V-MI01

Supermaster 230V – 600mm Stroke

Silver	ACUC-SUP-230V-SI02
White	ACUC-SUP-230V-WH02
Dark Brown	ACUC-SUP-230V-DB02
Mill	ACUC-SUP-230V-MI02

Supermaster 230V – 800mm Stroke

Silver	ACUC-SUP-230V-SI03
White	ACUC-SUP-230V-WH03
Dark Brown	ACUC-SUP-230V-DB03
Mill	ACUC-SUP-230V-MI03

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.

230V

RELATED PRODUCTS AND SERVICES

24V



VENTEC 100
SERIES CONTROL



VENTEC R
SWITCH



230V TF SERIES
CONTROL



PROJECT
COMMISSIONING



INSTALLATION
& MAINTENANCE

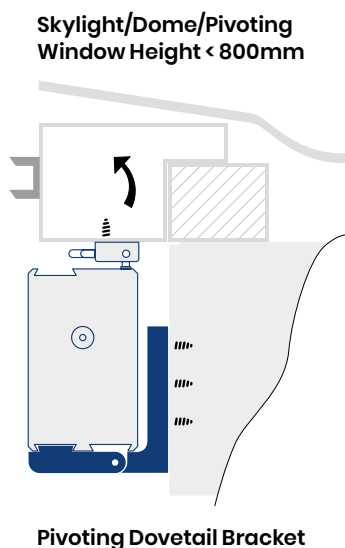
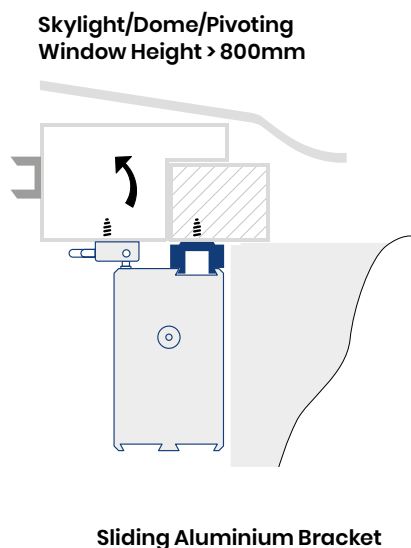
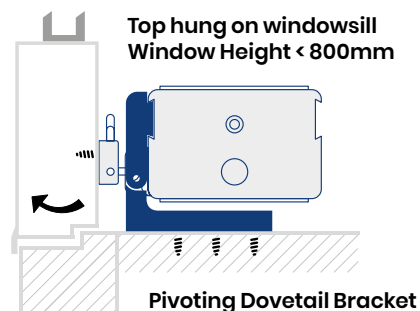
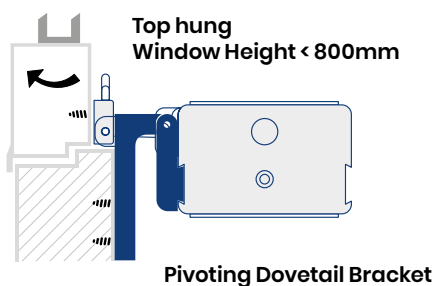
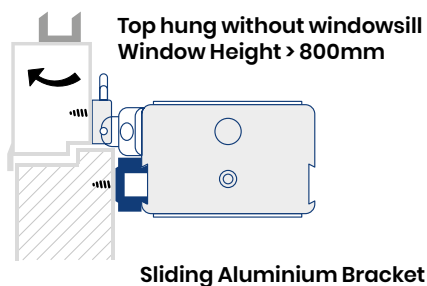


24V TF SERIES
CONTROL

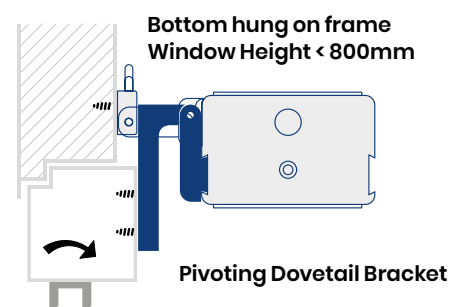
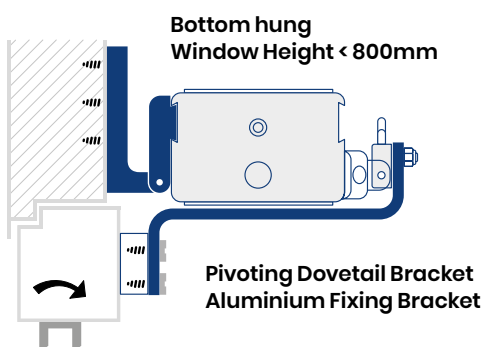
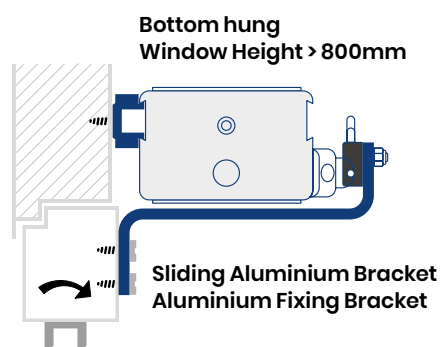


WEATHER
STATION

OUTWARD OPENING INSTALLATION EXAMPLES



INWARD OPENING



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:

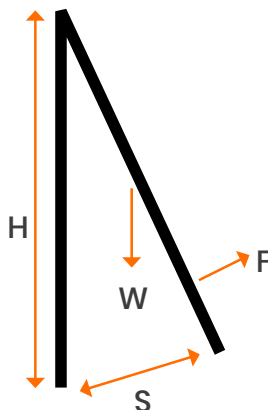
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

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

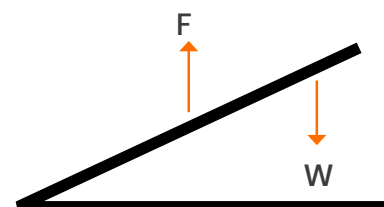
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

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.