



**NEXT DAY
DESPATCH**



**UK
IMPORTER**

**100 SERIES
COMPATIBLE**

**IP65
RATED**



Linear



230V



Up to 450N/45 kg



180, 300 or 500mm OPTIONS

**DO NOT USE FOR
SMOKE VENTILATION**



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

ABOUT THIS ACTUATOR

The UCS Max 230V electric linear actuator with rigid spindle is available in 180mm and 300mm (450N) and 500mm (350N) stroke options. Limit stop by micro switches and thermal protection. Equipped with an adjustable eyelet for an easier installation. A version with fixed eyelet is also available.

PRODUCT HIGHLIGHTS

- ✓ High protection degree
- ✓ Supplied with end bracket
- ✓ Optional sliding bracket for windowsill or limited space (obstructed) installations
- ✓ Stroke reduction kit available on request
- ✓ CE marked device

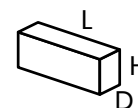
SUITABLE FOR...



COLOUR OPTIONS

- Anodized Silver
- Bespoke colours on request

STANDARD ACTUATOR DIMENSIONS



LENGTH:	300mm (180mm stroke) 400mm (300mm stroke) 600mm (500mm stroke)
HEIGHT:	58mm
DEPTH:	65mm

TECHNICAL DATA >>>

PRODUCT CODES >>>

TECHNICAL DATA

	UCS Max 180mm, 300mm	UCS Max 500mm
Voltage Supply	230V	230V
Thrust Force	450N/45 kg	350N/35 kg
Traction Force	450N/45 kg	350N/35 kg
Stroke Adjustment	N/A	N/A
Maximum Window Width	1300mm (use an actuator with two pushpoints if wider)	
Absorbed Current	0.7 amps	0.7 amps
Power	160 watts	160 watts
Operating Temperature	-10°C to +60°C	-10°C to +60°C
Time Rating	20%	20%
Limit Stop	Microswitches	Microswitches
Safety Stop	Thermic	Thermic
Wiring	3 Core + Earth	3 Core + Earth
Speed	~ 20mm/s	~ 20mm/s
Double Insulated	No	Yes
Protection Class	IP65	IP65
Parallel Connection Option	Yes	Yes
Cable Length (standard)	1.0m	1.0m

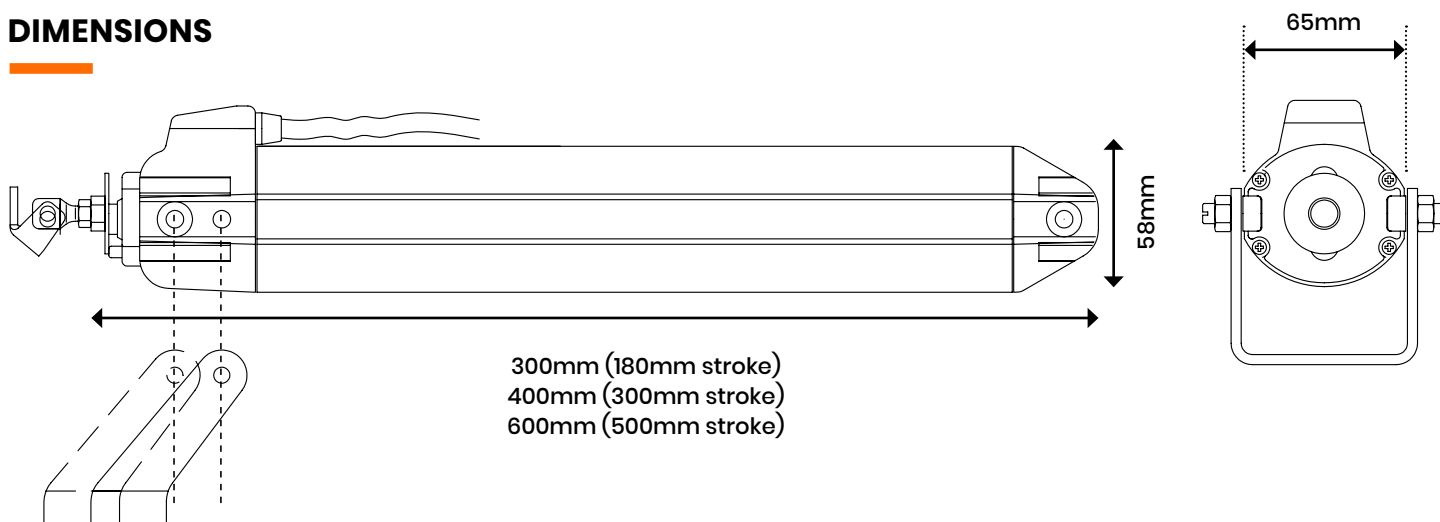


WHAT'S IN THE BOX?

- ✓ UCS Max Actuator
- ✓ Upper Bracket Connecting Pack
- ✓ Fitting Template
- ✓ Installation and User Guide

! IMPORTANT: If installed on top hinged windows, the maximum force on push action is reduced to 300N (for 180mm and 300mm stroke) and 230N (for 500mm). For installation on top-heavy hinged windows, contact our team for guidance.

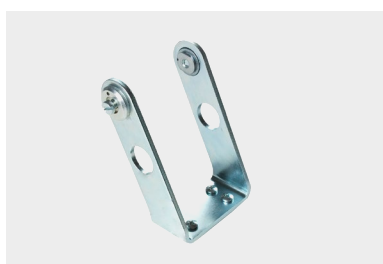
DIMENSIONS



PRODUCT CODES >>>

BRACKET & ACCESSORY CODES

Lower Bracket (Fixing End Bracket)
AXUC-MAX-BLOW-MI01



Sliding Bracket
AXUC-MAX-BSLI-MI01

ACTUATOR CODES

Max Actuator 180mm Stroke 230V
Silver ACUC-MAX-230V-SI03

Max Actuator 300mm Stroke 230V
Silver ACUC-MAX-230V-SI01

Max Actuator 500mm Stroke 230V
Silver ACUC-MAX-230V-SI02

Max WP Actuator (external use)
Available on request

230V**RELATED PRODUCTS AND SERVICES**

VENTEC 100
SERIES CONTROL



VENTEC DS
SWITCH



230V TF SERIES
CONTROL



PROJECT
COMMISSIONING



INSTALLATION
& MAINTENANCE

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:

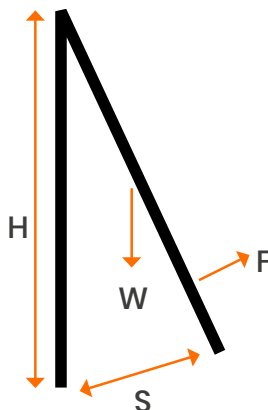
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

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

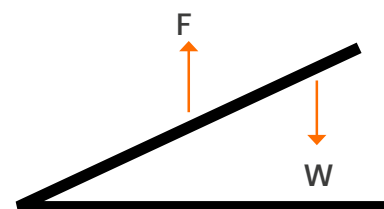
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

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.