

 **NEXT DAY DESPATCH**
 **SOLE UK IMPORTER**
100 SERIES COMPATIBLE
IP40 RATED
IP42 OPTION
SYNCHRO OPTION
BMS INPUT



-  **TYPE** Chain
-  **VOLTAGE** 24V or 230V
-  **THRUST** 300N/30 kg
-  **STROKE** 500mm

DO NOT USE FOR SMOKE VENTILATION

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

ABOUT THIS ACTUATOR

The UCS Quasar electric actuator, with reinforced double-link chain housed in a low-profile casing, is available in 24V and 230V options. Closing position regulation is not required, reducing the possibility installation error. Connecting Bracket included.

A Drawbridge option for smoke control (opens bottom hung windows up to 90°) is available on request.

PRODUCT HIGHLIGHTS

- ✓ Easy concealment within curtain walls
- ✓ Low noise operation
- ✓ Building Management System input available
- ✓ Bracketless installation is possible for windows with pivoting hinges if the vent height is at least 1500mm
- ✓ Quick release system for easy window cleaning
- ✓ Synchronisation option available
- ✓ Building Management System input
- ✓ IP42 Protection Class available on request
- ✓ CE marked device

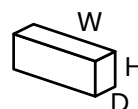
SUITABLE FOR...



COLOUR OPTIONS

-  Black
-  White
-  Silver
-  Bespoke colours on request

ACTUATOR DIMENSIONS



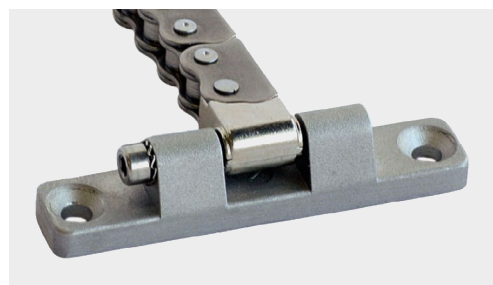
WIDTH: 676mm
HEIGHT: 32mm
DEPTH: 47.5mm

TECHNICAL DATA >>>

PRODUCT CODES >>>

24 HR TECHNICAL DATA

	UCS Quasar 24V	UCS Quasar 230V
Thrust Force (push)	300N	300N
Traction Force (pull)	300N	300N
Stroke	500mm	500mm
Absorbed Current	0.9 amps	0.4 – 0.2 amps
Power	22 watts	48 watts
Time Rating	50%	50%
Limit Stop	Electronic	Electronic
Safety Stop	Electronic	Electronic
Wiring	2 Core + Earth	3 Core + Earth
Speed	~ 15mm/s	~ 15mm/s
Double Insulated	No	No
IP Protection Class	IP40 (IP42 on request)	IP40
Feedback Signal Option	Open/Close	No
Synronisation Option	Yes	Yes
Parallel Connection Option	Yes	Yes
BMS Input Available	Yes	Yes
Weight	2.165 kg	2.3 kg
Cable Length	1.5m	1.5m



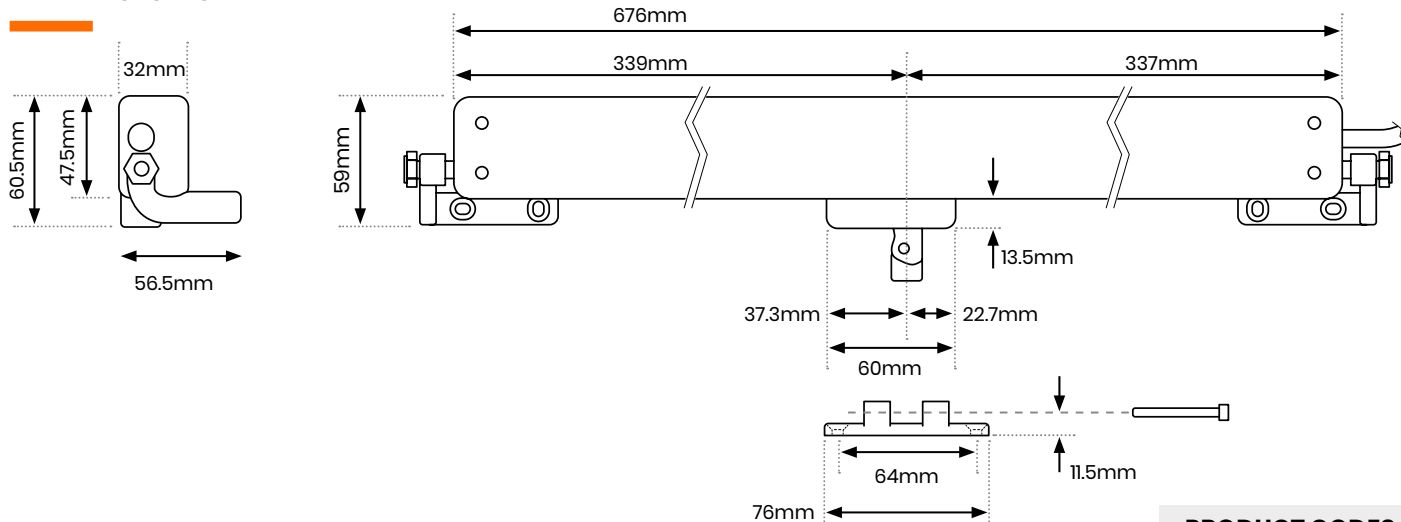
WHAT'S IN THE BOX?

- ✓ UCS Quasar Actuator
- ✓ Upper Bracket Connecting Pack
- ✓ Fitting Template
- ✓ Installation and User Guide
- ✓ Health & Safety Sticker

UCS Quasar: Alternative Options Available on request

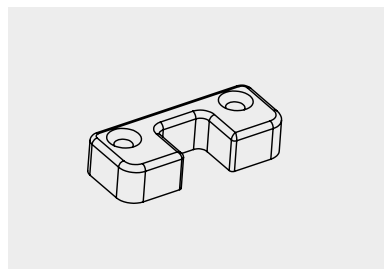
SYNCHRO Quasar 230V SYNCHRO Quasar 24V	Equipped with an integrated speed synchronization control board for the installation of more than one actuator on the same vent, avoiding any external control panel: max 4 Synchro Quasar. 230V version: 1 Synchro Quasar 230V + 1 Synchro Quasar 230V (max 2 couples). 24V version: maximum 4 Synchro Quasar 24V.
F-SIGNAL Quasar 24V	Opening and closing feedback signal (free potential, maintained contact), activated by the current limit. 24V only.
Drawbridge Quasar 24V	Opens bottom hung windows up to 90° (for smoke ventilation). 24V only.

DIMENSIONS

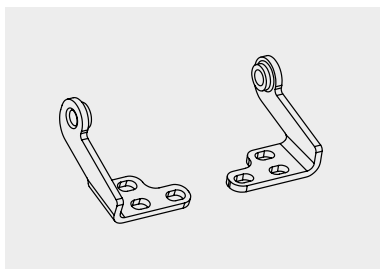


PRODUCT CODES >>>

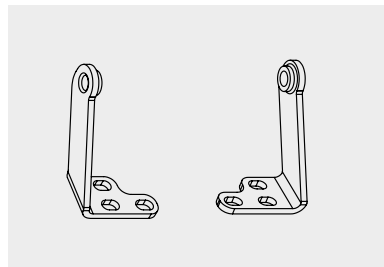
BRACKET & ACCESSORY CODES



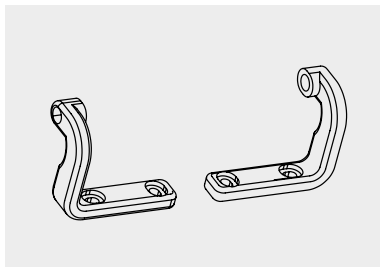
Upper Bracket (included)
Connects chain to sash
AXUC=QUA-BUPP-0001



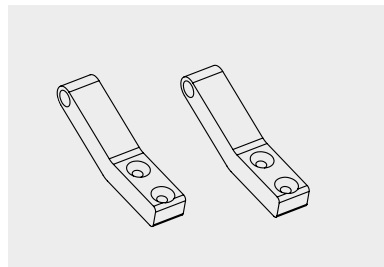
Short Slim Bracket Kit
Black Available on request
White Available on request
Mill Available on request



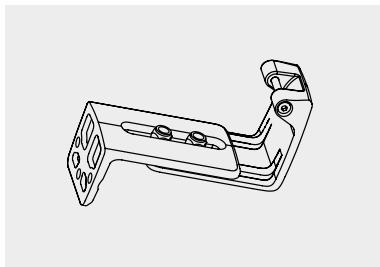
Long Slim Bracket Kit
Black Available on request
White Available on request
Mill Available on request



Die Cast Pivoting Bracket
Black AXUC-QUA-BPIV-BL02
White AXUC-QUA-BPIV-WH02
Mill AXUC-QUA-BPIV-MI02



Long Bracket Kit
Grey Available on request
White Available on request
Mill Available on request



Inward Opening 'Z' Bracket
Black AXUC-QUA-BUPP-BL01
White AXUC-QUA-BUPP-WH01
Mill AXUC-QUA-BUPP-MI01

ACTUATOR CODES

Quasar 24V

Black	ACUC-QUA-024V-BL01
White	ACUC-QUA-024V-WH01
Silver/Grey	ACUC-QUA-024V-SI01
Mill	ACUC-QUA-024V-MI01

Quasar 230V

Black	ACUC-QUA-230V-BL01
White	ACUC-QUA-230V-WH01
Silver/Grey	ACUC-QUA-230V-SI01
Mill	ACUC-QUA-230V-MI01

Quasar 24V – IP42 Rating

Available on request



Synchro Quasar Options

Available on request

Quasar 24V Drawbridge Option

For bottom hinged windows, opening outwards up to 90° (smoke control)
Available on request

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 DS
SWITCH



230V TF SERIES
CONTROL



PROJECT
COMMISSIONING



INSTALLATION
& MAINTENANCE



24V TF SERIES
CONTROL



WEATHER
STATION

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:

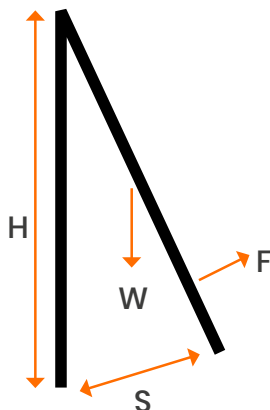
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

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.



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.

DOMES AND SKYLIGHTS

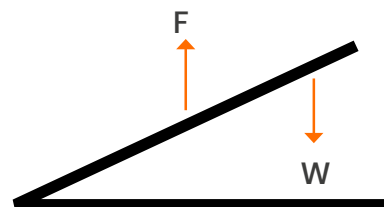
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

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.