

 **NEXT DAY DESPATCH**
 **UK IMPORTER**
100 SERIES COMPATIBLE
IP20 RATED
TANDEM OPTION



-  **Chain**
-  **24V or 230V**
-  **400N/40 kg**
-  **100mm to 500mm **ADJUSTABLE****



TANDEM OPTIONS AVAILABLE

DO NOT USE FOR SMOKE VENTILATION 

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

ABOUT THIS ACTUATOR

The TOPP C20 actuator with double link central exit chain is available in both 24V and 230V models. Mounting bracket options for top and bottom hung, inward and outward opening windows. Clean looks and impressive features, including a fast hooking and unhooking system of the chain to the window frame. Automatic stop on closing stroke between 1mm and 100mm.

PRODUCT HIGHLIGHTS

- ✓ High stroke performance for actuator size
- ✓ External dial adjusts stroke at 240mm or 360mm
- ✓ 24V and 230V Tandem options available
- ✓ Buzzer indicates incorrect installation
- ✓ CE marked device

SUITABLE FOR...

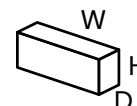


COLOUR OPTIONS

-  Black
-  White
-  Grey

ACTUATOR DIMENSIONS

WIDTH: 362mm
HEIGHT: 34mm
DEPTH: 48mm



TECHNICAL DATA >>>

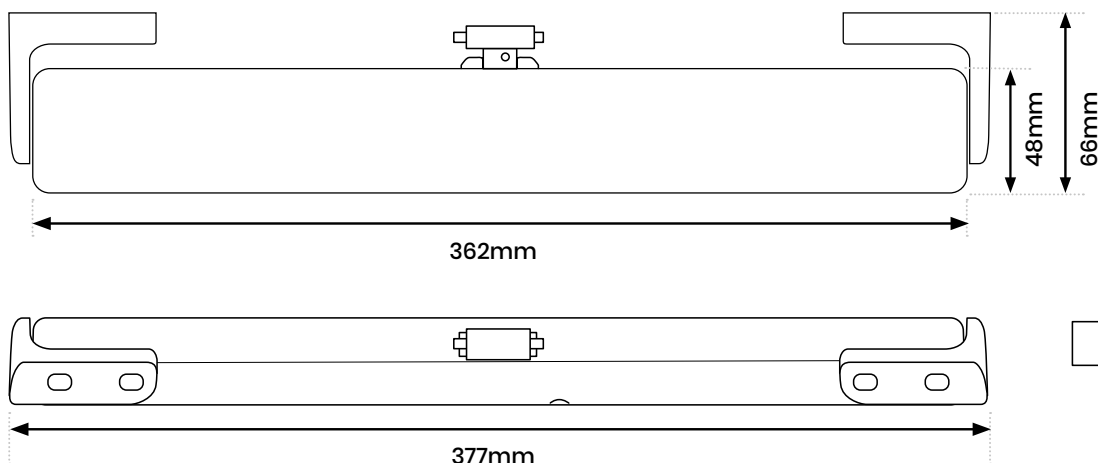
PRODUCT CODES >>>

TECHNICAL DATA

	TOPP C20 24V	TOPP C20 230V
Voltage Supply	Min. 21V Max. 28V	230V
Thrust Force	300N/30 kg	300N/30 kg
Traction Force	200N	200N
Stroke Adjustment	240mm or 360mm	240mm or 360mm
Minimum Window Width	432mm	432mm
Maximum Window Width	1300mm (use actuator with two pushpoints if wider)	
Absorbed Current	0.43 amps	0.12 amps
Power	9 watts	25 watts
Operating Temperature	-5°C to +50°C	-5°C to +50°C
Time Rating	S2 4 min	S2 4 min
Limit Stop	Electronic	Electronic
Safety Stop	N/A	N/A
Wiring	2 Core + Earth	4 Core + Earth
Speed	~ 9.7mm/s	~ 10mm/s
Double Insulated	Yes	Yes
IP Protection Class	IP30	IP30
Synchronisation Option	No	No
Tandem Option	Yes – Minimum inter-axis between two actuators 1000mm	
Parallel Connection Option	Yes – on request	Yes – on request
Weight	0.94 kg	0.97 kg
Cable Length (standard)	1.5m	1.5m

	Minimum Window Frame Height – 24V & 230V
Top Hung	250mm (240mm stroke) – 360mm (360mm stroke)
Bottom Hung	500mm (240mm stroke) – 900mm (360mm stroke)
Dome	300mm (240mm stroke) – 400mm (360mm stroke)

DIMENSIONS

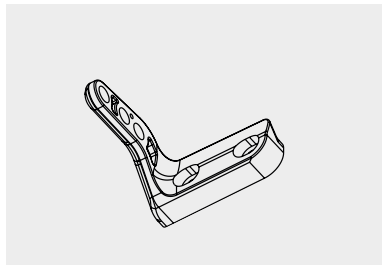


WHAT'S IN THE BOX?

- ✓ TOPP C20 Actuator
- ✓ ARS Coupling Pack & Release Tool
- ✓ Inward Opening Bracket
- ✓ Drilling Template
- ✓ Installation and User Guide
- ✓ Safety Plate

PRODUCT CODES >>>

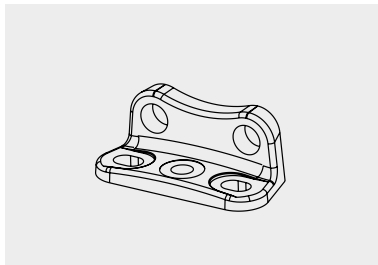
BRACKET & ACCESSORY CODES



Front Mounted Swivel Bracket

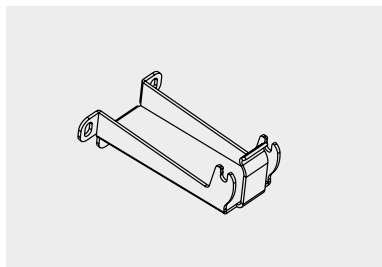
(top/bottom hung windows)

Black AXTO-C20-BSWI-BL01
White AXTO-C20-BSWI-WH01
Grey AXTO-C20-BSWI-GR01



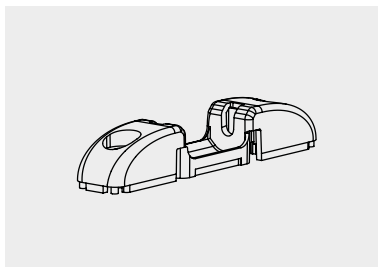
Vertical Mounting Bracket

Black AXTO-C20-BVMO-BL01
White AXTO-C20-BVMO-WH01
Grey AXTO-C20-BVMO-GR01



Inward Opening Bracket

White AXTO-C20-BUPP-WH01



ARS Rapid Hooking Device (included)

(connects to window leaf)

Black AXTO-C20-BARS-BL01
White AXTO-C20-BARS-WH01
Grey AXTO-C20-BARS-GR01

ARS Bracket Release Tool (included)

AXTO-C20-BARS-0002

ACTUATOR CODES

C20 24V

Black ACTO-C20-024V-BL01
White ACTO-C20-024V-WH01
Grey ACTO-C20-024V-GR01

C20 230V

Black ACTO-C20-230V-BL01
White ACTO-C20-230V-WH01
Grey ACTO-C20-230V-SI01



C20 Tandem 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

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:

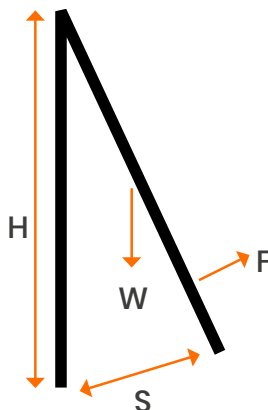
$$F = \frac{W}{2} \times \frac{S}{H} \times 10$$

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

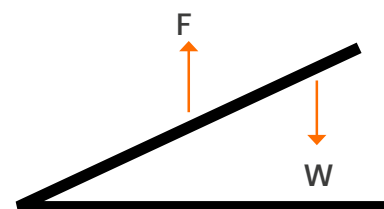
IMPORTANT: When calculating the required force for domes and skylights, Snow Load must be added to the weight of the window leaf (W).

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.