

DROP-ARM AWNINGS

US701 / US702

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1. GENERAL

The US701 and US702 drop-arm awnings are shadings of the "cassette type". This means that in their closed position the fabric roll and the fabric are protected against harmful weather influences by the cover and the drop-arm profile. The housing forms a sort of closed off casing or cassette. They are fitted with at least 2 drop-arms. These arms are fitted on or in the opening independent of the housing assembly.

2. TERMINOLOGY

Slightly different terminology is used for the drop-arm awnings (compared with other sun-shading products such as folding arm screens).

The various descriptions for defining the screen for an order, for example, can be found in fig. 2.

3. FINISHED SIZES

- **Finished width** = width including the side consoles.

Caution: The client must deduct the play in relation to the wall.

- **Drop** = drop measured from the rear side of the arms against the wall, to the front side of the end profile (measured with a horizontal position of the arms, 90°).

- **Working height** = vertically measured from the bottom side of the end profile to the top of the housing (measured with a drop angle of 90°).

- **Drop angle** = the maximum angle measured between rear and front profile of the drop-arms (with slide arms this angle is always 90°, with the other arms 90° or 120°).

- **Fabric height** = measured from the front side of the end profile to the topside of the fabric roll (measured with the maximum drop angle of the arms).

An illustration of these important sizes can be found in figure 2.

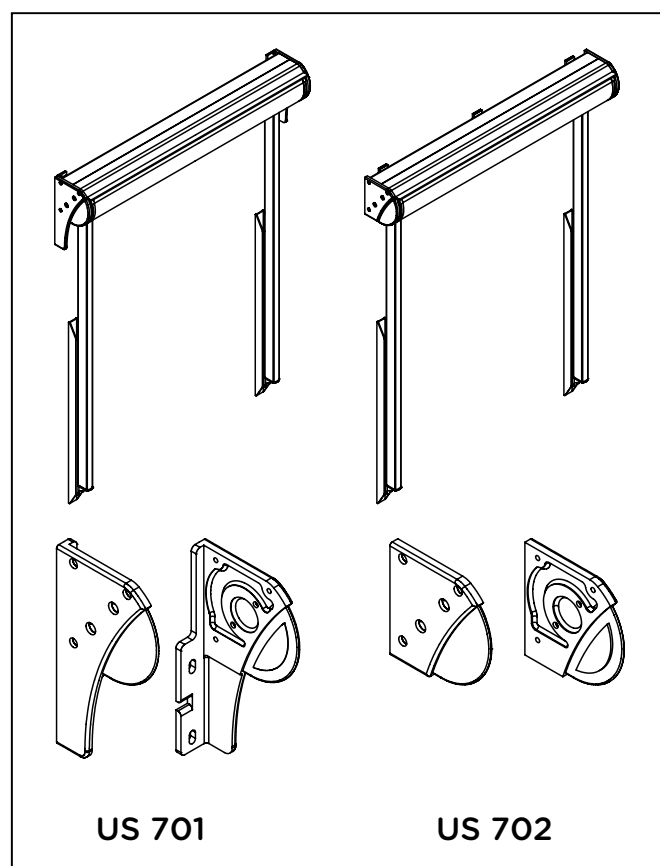


fig. 1 : Type

4. MINIMUM AND MAXIMUM SIZES

- Single construction: see table
- Coupling possible with 2 fabrics.
 - Continuous housing and extension pole possible to a width of 7m.
 - From 7m width: always two housings, two end profiles and two fabrics.
 - Coupling of the fabric roll: from a width of 5m.
 - 1 extra arm is provided.
 - Always take account of a light slit of 6cm.
- Various arm types and drop angle: see arms table.

	Minimale width	Maximale width
Worm gear	500 mm	5000 mm
Mono-command	500 mm	5000 mm
LT Standard motor	630 mm	5000 mm
Orea WT	790 mm	5000 mm
Coupled part	500 mm	5000 mm

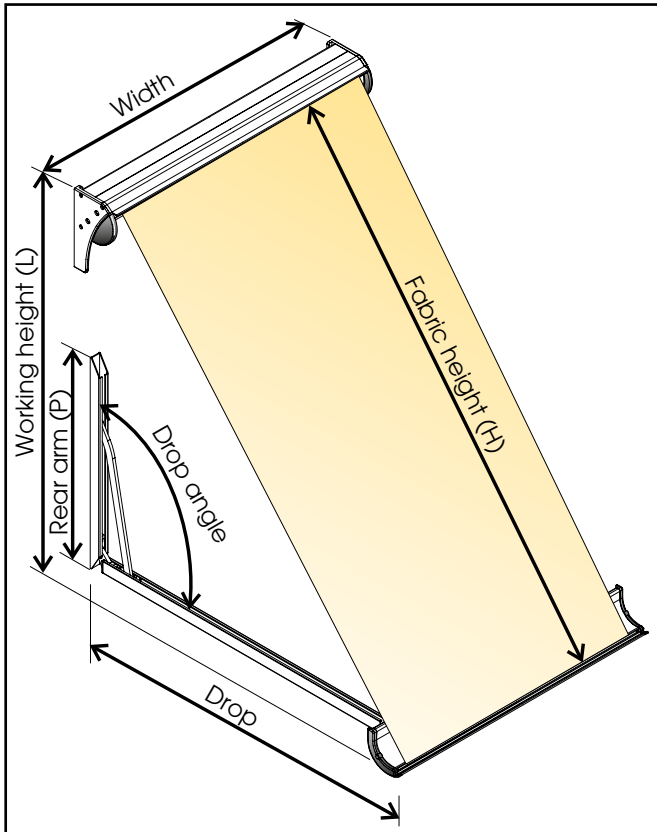


fig. 2 : Finished sizes

5. THE PROFILES

5.1. The cover profile

- Material: extruded aluminium.
- Surface treatment: powder coated.
- Colour: see colour card.
- Wall thickness: 2.2mm.
- Provided with an anti-drip and rain edge and two buffer edges (good connection of the extension pole).
- The cover largely closes off the housing.
- On the rear side the cover has profiling for the hooking on of the possible wall brackets.

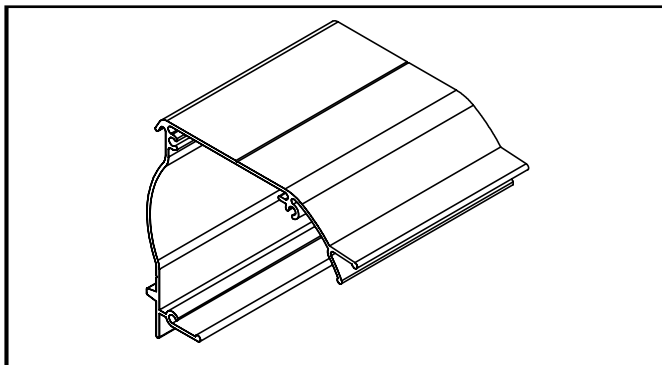


fig. 3 : Cover profile

5.2. The extension pole

- Material: extruded aluminium.
- Surface treatment: powder coated.
- Colour: see colour card.
- Wall thickness: 1,8mm.
- The extension pole is provided with integrated profiling for fabric and arm attachment and flounce (flounce in option).

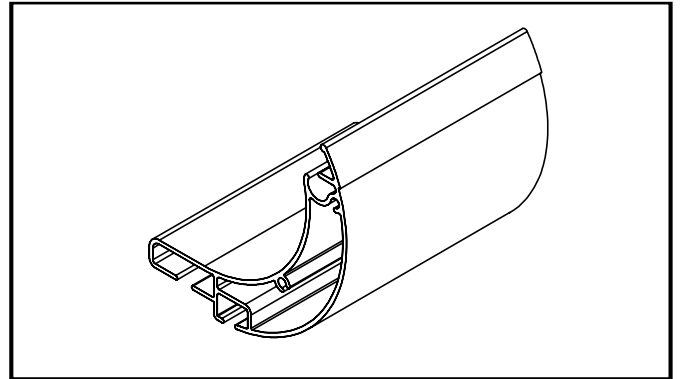


fig. 4 : Extension pole

5.3. The fabric roll

- Material: a welded tube, formed from a steel strip Sendzimir-galvanised.
- Provided with a groove for attaching the blind.
- Diameter: 63mm.
- Wall thickness: 1mm.

6. OTHER COMPONENTS

6.1. The side consoles

- Material: hydraulic cast aluminium.
- Surface treatment: powder coating.
- Colour: see colour card.
- Two different versions "US701 and US702" :
 - **US701:**
 - Fitted with high side consoles provided with fixed attachment positions (supporting functionality).
 - Take care that the surface for assembly is sufficient sturdy (after assembly the two side consoles support the fabric).
 - **US702:**
 - Fitted with low side consoles.
 - Assembly of the housing by means of wall brackets.
 - The consoles only serve in sealing the housing along the side (no supporting functionality).

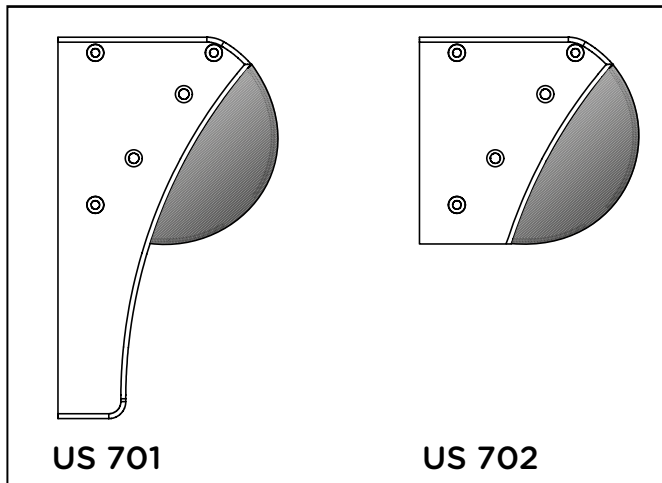


fig. 5 : Side consoles

6.2. Open bearing

- Material: high quality synthetic material (optimal bearing).
- Consists of a bearing block (universal intermediate console) with a removable cover slide (see fig. 6).
- The fabric roll and fabric can be simply removed from the housing.

6.3. Wall brackets

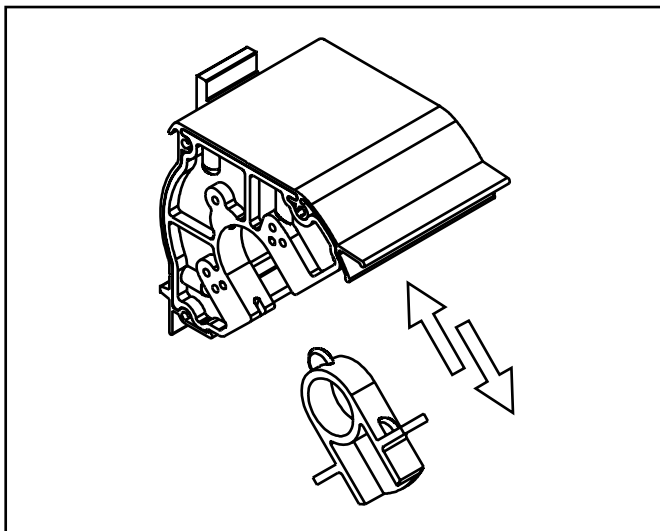


fig. 6 : Open bearing

- Material: extruded aluminium.
- Surface treatment: powder coated.
- Colour: see colour card.
- The brackets can be freely positioned along the whole width of the housing.
- After the placing of the wall brackets the housing is fitted in the brackets (fig. 7).

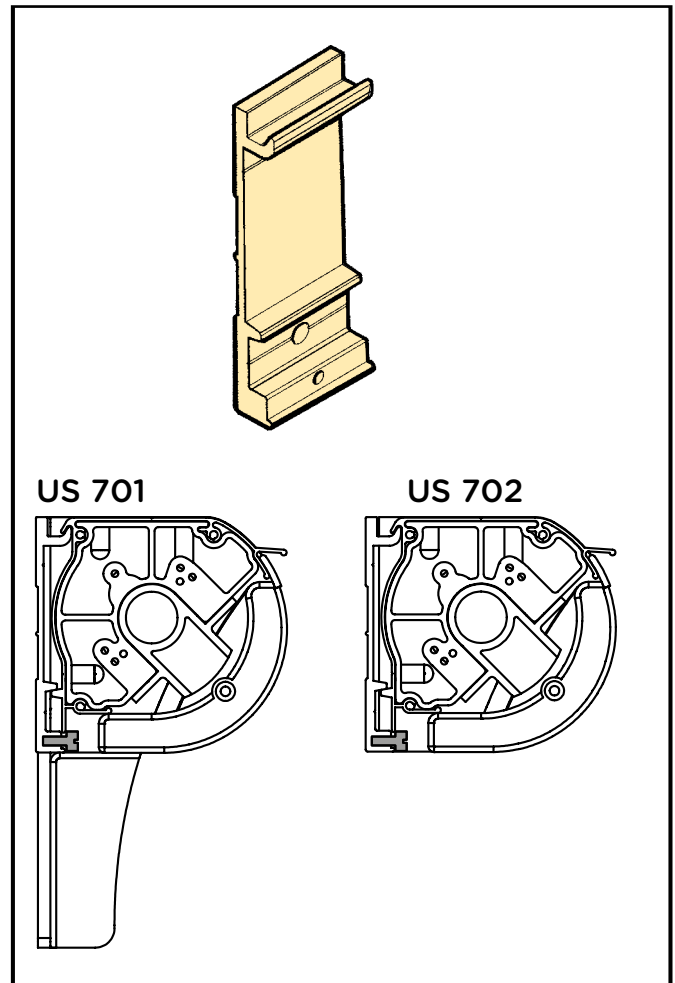


fig. 7 : Wall brackets

- For good assembly the even spreading of the brackets is required. The end brackets are best placed as close as possible to the side consoles, space the other brackets proportionately along the rest of the length.

In the table below you can find an overview of a number of wall brackets supplied as standard.

WIDTH	US701	US702
0 - 4000 mm	0	2
4001 - 5000 mm	1	3
5001 - 8000 mm	1 - 2*	3 - 4*
8001 - 10000 mm	3	
Additional wall brackets can always be ordered as an optional extra.		
* If 1 part is wider than 4000 mm.		

7. OTHER MATERIALS

- The synthetic injection-moulded parts are produced from PA66, polycarbonate or ABS.
- All attachment and assembly material, nuts and screws are produced from stainless steel AISI 304.

8. ARMS

8.1. Fixed arm (VA)

- Forced out by a leaf spring, by which the arms drop out automatically by the weight of the extension pole. That is why these arms are not provided with a shore or a work arm.
- They have a solid hinge point below the arm.
- Used in sheltered areas.

8.2. Storm-resistant arm (SA)

- Forced out by a stainless steel spring, whereby the work arm ensures the transmission
- Solid hinge point.
- Used in windy areas.

8.3. Gas spring arm (WGA)

- The forcing out is provided by means of a strong gas spring.
- Solid hinge point.
- Used in windy areas.

8.4. Sliding arm (GA)

- The forcing out is provided by means of a strong gas spring.
- Hinge point moves into the wall profile.
- The most important characteristic: working height is less than the drop (more run-through height).

8.5. Fixed arm with chain (VAK)

- Especially designed for assembly in the opening.
- Forced out by the combination of a chain and a spring.
 - The spring is enclosed by the arm profile.
 - The chain transmits the tractive force from the spring to the angled support.
 - The angled support is provided with two elliptic holes at the side (placement in the opening) and two elliptic holes at the rear (placement on the opening).
- The arm can be placed further outwards thanks

to the connection piece in S-form at the front arm profile, with which the arm can be fastened to the extension pole.

- Side bracket and side housing are aligned.
- At that moment, the side consoles are provided with sidelong elliptic holes for an easy assembly.
- These arms cannot be used with the US702 version.

8.6. Position of the storm-resistant and gas spring arm in relation to the side consoles with type US701

- The drop arms with an extension of 900mm and all slide arms, because of their arm geometry (front arm has approximately the same length as the rear arm), cannot be fitted under the side consoles, but beneath the side consoles of the awning (see figure 9). If this is not possible because of the situation of the assembly, one must use the US702.

Remark: extra arm(s) possible, at surcharge.(A170)

8.7. Working height according to arm version

Arm version	Working height (mm)
VA / SA / WGA 900 mm	1010
VA / SA / WGA 1050 mm	1160
VA / SA / WGA 1250 mm	1360
VA / SA / WGA 1400 mm	1510
GA 1650 mm	680
GA 1950 mm	848
VAK 900 mm	977
VAK 1050 mm	1127
VAK 1250 mm	1327
VAK 1400 mm	1477

In the tables above you can find the respective working heights (see terminology).

Technical Data Drop-Arm Awnings US701 & US702

TABLE : POSITION OF THE ARMS		"X" with rod operation with eye*	"X" with mono-command**	"X" with electr. or NTK***
US701	VA 90	95 mm	48 mm	48 mm
	SA/WGA 90	95 mm	70 mm	70 mm
	VA/SA/WGA 105	95 mm	48 mm	48 mm
	VA/SA/WGA 125	95 mm	48 mm	48 mm
	VA/SA/WGA 140	95 mm	48 mm	48 mm
	GA 165	95 mm	70 mm	70 mm
US702	GA 195	95 mm	70 mm	70 mm
	VA/SA/WGA 90	95 mm	48 mm	48 mm
	VA/SA/WGA 105	95 mm	48 mm	48 mm
	VA/SA/WGA 125	95 mm	48 mm	48 mm
	VA/SA/WGA 140	95 mm	48 mm	48 mm
	GA 165	95 mm	48 mm	48 mm
	GA 195	95 mm	48 mm	48 mm

* rod operation with eye = exterior operation with worm-gear

** mono-command = interior gear system, also referred to as interior crank handle operation

*** ELEKTR = motorcontrol

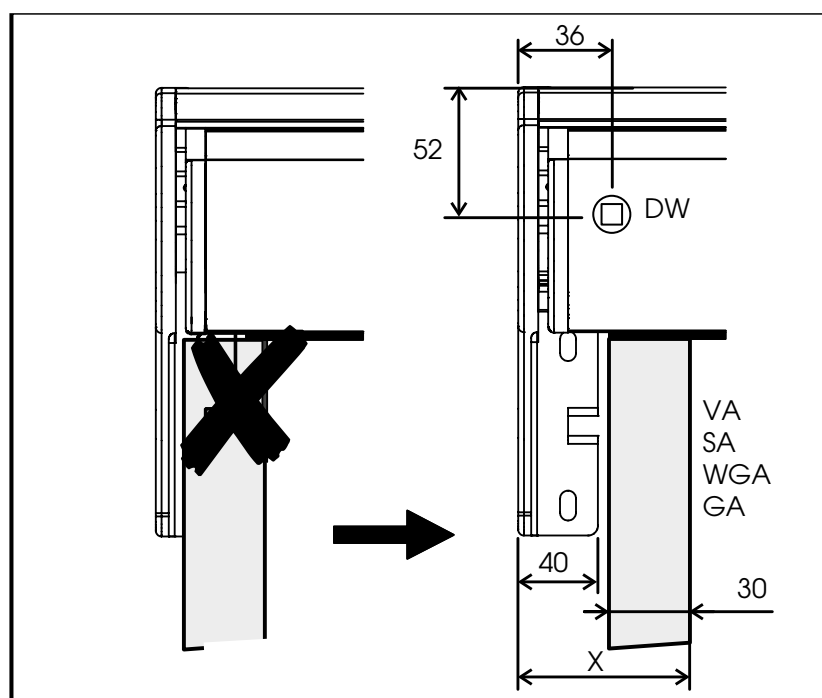


fig. 9 : Position of the arms

mm	Mounting height (L)			Rear arm (P)			Arm type					Fabric height in mm				
	US701	US701#	US702	VA	SA WGA/GA	VAK	VA	SA	WGA	GA	VAK	1400	1600	1950	2200	2500
Drop																
900	932	937	932	300	765	100	x	x	x	-	x	90°	120°			
1050	1082	1087	1087	300	765	100	x	x	x	-	x		90°	120°		
1250	1282	1287	1287	300	765	100	x	x	x	-	x			90°	120°	
1400	1432	1437	1437	300	765	100	x	x	x	-	x				90°	120°
1650	1724	-	1724	-	1600	-	-	-	-	x	-			90°		
1950	2023	-	2023	-	1900	-	-	-	-	x	-				90°	
Position of the arms																

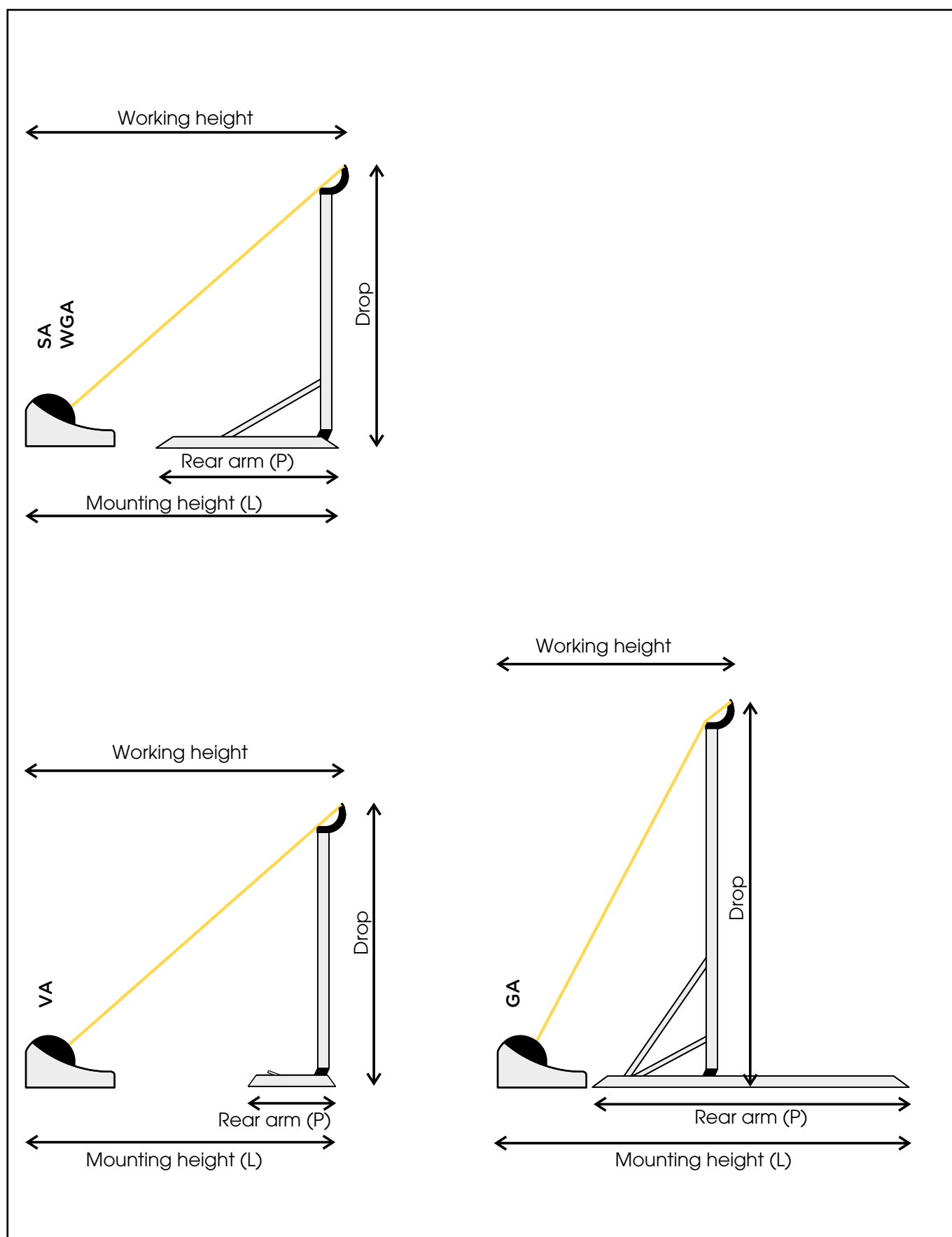


fig. 8 : Arms

9. OPERATION

- Choice between 3 operating types:

9.1. Electrical operation

- Operation by an electrical asynchronous motor, built into the fabric roller.

The standard motor is the Sunea IO motor, without push buttons and controlled with an IO transmitter.

- IO transmitter.
- 5m electric cable.

Option:

- without IO wall transmitter.
- electric cable 10m instead of 5m.
- other types of motors : LT - Orea WT

Prod. Type	MOTORTYPE	OPTION	SURCHARGE	CABLE LENGTHS		
				3M	5M	10M
US 701 US 702	Sunea IO	A1281	-	-	S	X
	Orea WT	A2619	Minusprice	S	X	X**
	LT	A1546	Minusprice	S	X	X**

S: Standard X: Option

*: Without RTS wall transmitter

** : Without surface mounted switch

- For more information and possibilities concerning the operating systems, see Domotics Map.

9.2. Type rod operation 7:1

- Operation by bevel wheel mechanism and link bar with toggle.
- The space for the worm gear is always at an angle of 20°.
- Outside operation.
- Bevel wheel mechanism:
 - Self-braking.
 - Transmission capacity 7:1.
 - With limiter : prevents the fabric from being rolled up incorrectly
- Link bar with toggle:
 - Standard length of 1600mm.
- Options:
 - Longer link bars are available (max length 2400mm).

9.3. Type rod operation 5:1

- Operation by bevel wheel mechanism and plasticized handle.
- The run-through is placed at an angle of 90°

inwards.

- Inside operation.
- Bevel gear mechanism:
 - Self-braking.
 - Transmission capacity 5:1.
 - With end limiter.
- Foldable rod:
 - Standard length 1600mm.
 - Can be clamped to the wall by means of a magnetic clamp.
- Cardan joint: 90°
 - Connection between bevel gear mechanism and foldable rod.
 - Transmission gear: square 8mm, L = 320mm.
- Options:
 - Foldable rods of different sizes.
 - Removable foldable rod with funnel coupling.
 - Transmission gear: square 8mm, L = 500mm.

10. MEASURING AND ASSEMBLY

10.1. Measuring

The width:

- Measured at the outer side of the consoles: i.e. the fabric, depending on the operating type, is always 120mm less wide than the width of the screen indicated.

Remark:

For optimal sun shading a sunscreen must protrude sufficiently the glass surface (placement on the opening).

The drop:

- Measured from the wall to the front side of the extension pole
- The screen must be measured at the correct height.
- You may foresee any sufficient run-through height.

Operating side: always seen from the outside.

Pay attention to the quality of the surface for assembly:

- With poor walls, walls of gas concrete, soft or hollow stone walls :
- Adapted fastening accessories are required.
 - Extra wall supports may have to be used.

10.2. Assembly

The mounting is in two phases:

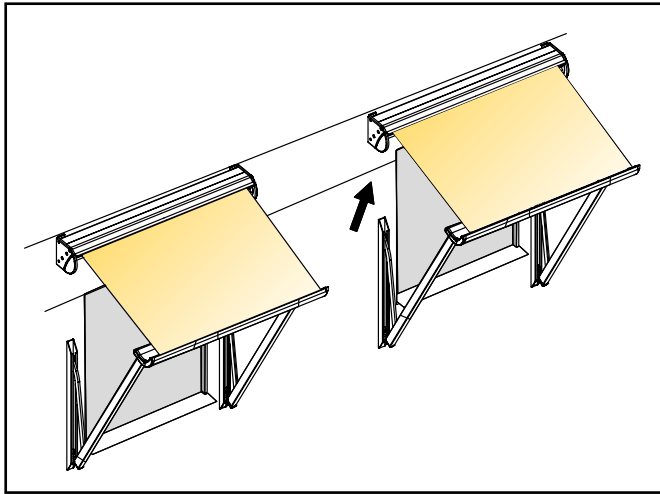


fig. 10 : Assembly

- Mounting the housing :

- The US701: attached to the wall by means of the side consoles (fixed attachment positions).
- The US702 is assembled by means of freely positioned wall brackets. After the assembly of these brackets the housing is hung on the brackets and locked in position.

- Mounting the arms:

- Account must also be taken of a number of basic rules:
 - The position of the extension pole (height) is directly determined by the position of the arms. If the arms are fitted too low, it is possible that there is an opening at the top between housing and extension pole. Take care that the arms are correctly aligned according to the extension pole.
 - Fit the outer arms and brackets as far as possible to the side (for these see table underneath fig. 9). Spread the remaining arms and brackets proportionally along the remaining width.
- The order of assembly:
 - The rear arm profile is to be screwed to the wall/frame (lining up!)
 - The front arm profile is to be screwed to the

extension pole by means of the connection plates.

11. FABRICS

- Choice between three qualities :

11.1 Acryl fabric

- Composition: Acryl fibre coloured in the mass.
- Colour: Patterns and colours chosen from the standard collection (Collection Europe and Top Collection).

FABRIC	Soltis 86	Soltis 92	Soltis Air
Thickness	Ca. 0,40 mm	Ca. 0,45 mm	Ca. 0,32 mm
Weight	330 gr/m ²	350 gr/m ²	330 gr/m ²
Permeability of the sunrays	14 %	4 %	4 %
Classification against fire	M2	M2	none

- Weight: $\pm 290 - 300 \text{ gr./m}^2$.
- Thickness: $\pm 0,5\text{mm}$.
- Confection: Patterned in vertical rows of 1200mm, side hems of 50mm width, double step stitch, and polyester thread.
- The fabrics are treated for rot and mould, and have waterproof and dirt-repelling qualities.

11.2. Soltis 86, 92

- Composition: Polyester threads, at both sides with PVC enveloped.
- Colour: Different unicolours chosen from the standard collection.
- Confection: Patterned in horizontal rows of 1770mm, no side hems, welded.
- The fabrics have excellent ventilation qualities, leave the view outwards and are very easily cleaned.

11.3. Soltis Air

- Composition: Polyester threads, at both sides with PVC enveloped.
- Colour: Different unicolours chosen from the standard collection.
- Confection: Patterned in horizontal rows of 1200mm, side hems 35mm, double step stitch with polyester thread.
- The fabrics have excellent ventilation qualities, leave the view outwards and are very easily cleaned.

Technical Data Drop-Arm Awnings US701 & US702

Please mention the colour numbers of the fabric as indicated on the colour cards.

12. COLOUR

- Standard colours of the frame and the aluminium parts: see colour card.
- RAL colours possible on payment of a supplement.
- Visible synthetic parts: standard in black (optionally in white).

13. LETTERING

- Optional on valance and/or fabric.
- Standard height of the valance with lettering is 300 mm.

Note :

Texts on striped fabrics and valances are often difficult to read.
In this case uni-fabrics are best used.

ORDER FORM
lettering



14. DELIVERY

- The screen is always delivered with all fastening material and accessories.
- The screens are packed in strong cardboard.

15. USE AND MAINTENANCE

Suitable use and maintenance greatly increase the life of the sun awning.

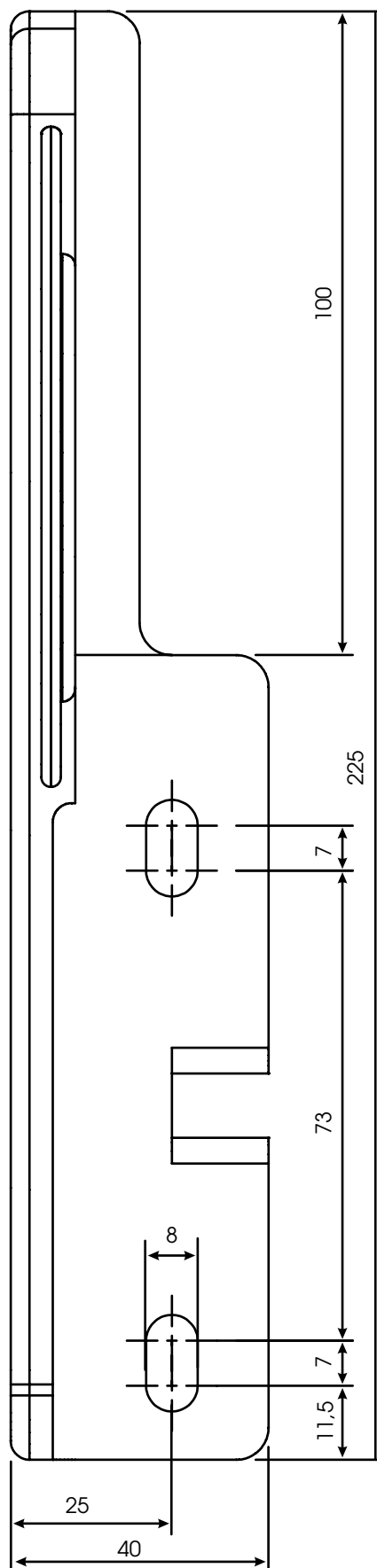
- Do not use the awning as a rain or wind awning.
- Regular maintenance of the awning prevents unnecessary wear or problems with the function.
- Cleaning of the frame: tepid water instead of aggressive substances (affection of the coatings and protective layers).
- Cleaning of the fabric:
 - Normal stains: dry with a somewhat stiff brush.
 - Stubborn stains: a tepid water and brown soap solution and a brush. Afterwards, rinse with copious amounts of clean water.
- Let the awning dry fully before rolling it up (even after an unforeseen rain shower).

16. ORDER FORM

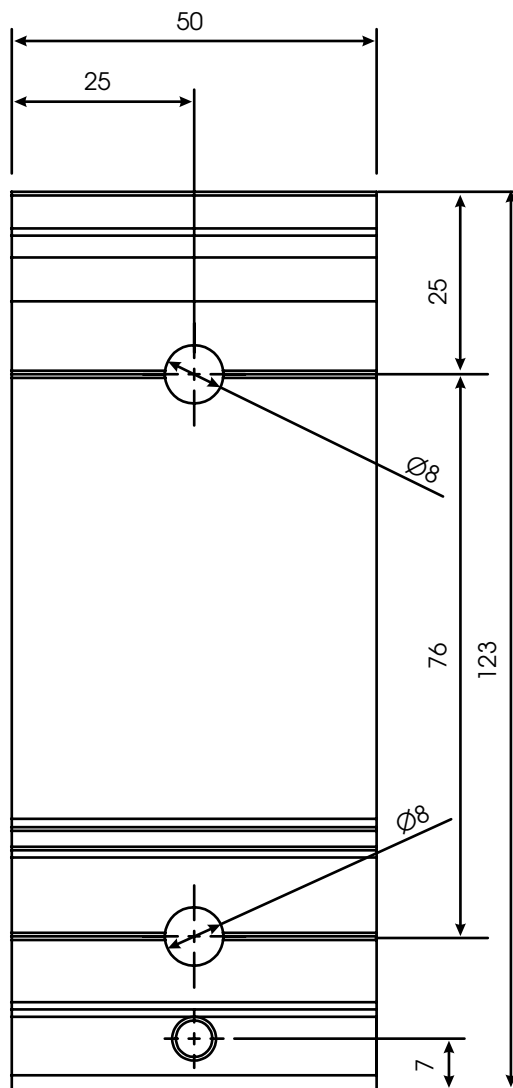
Click on the button below:

ORDER FORM
US701 - US702

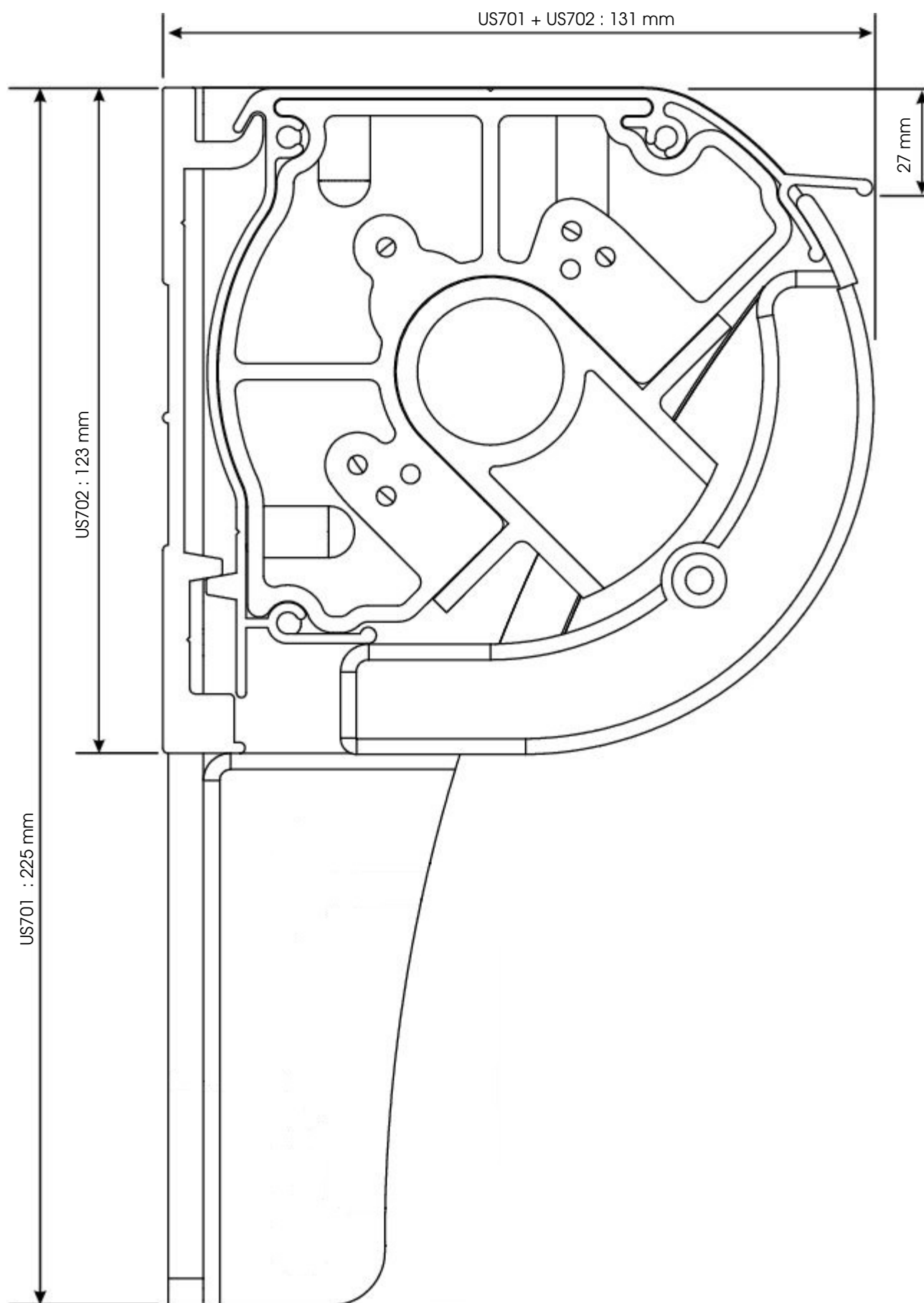




Wall brackets US701 & US702



Technical Data Drop-Arm Awnings US701 & US702



Position of the elliptic holes in rear arm with VA/SA/WGA/GA

VA L = 300 mm (2 holes)
 SA + WGA : L = 765 mm (2 holes)
 GA 165 : L = 1600 mm (3 holes)
 GA 195 : L = 1900 mm (3 holes)

3rd hole in the middle

