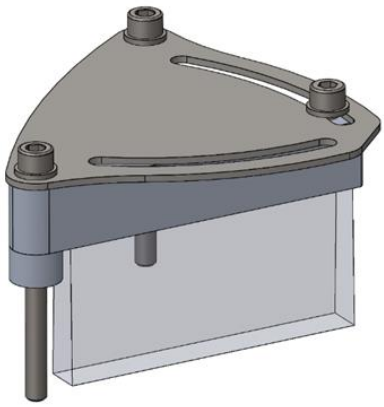
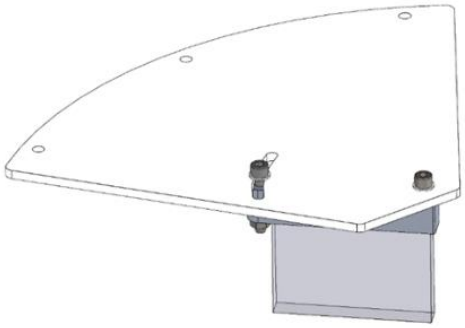
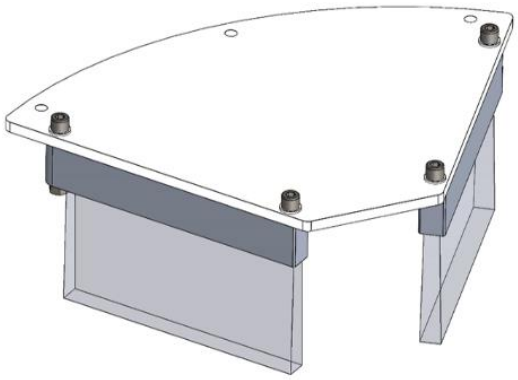
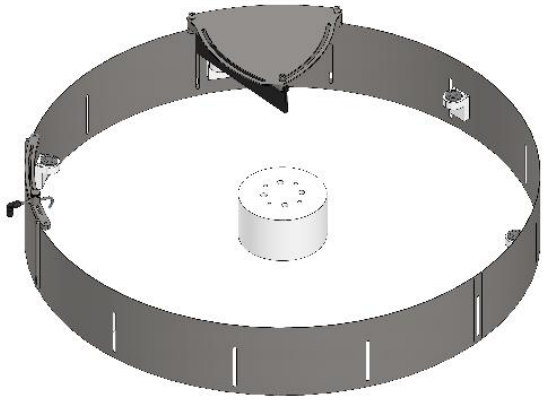
FlexiBowl® by ars

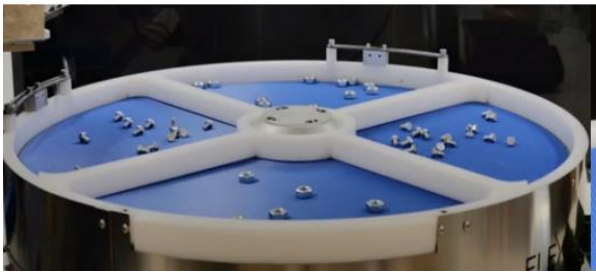
# New Flexibowl Options

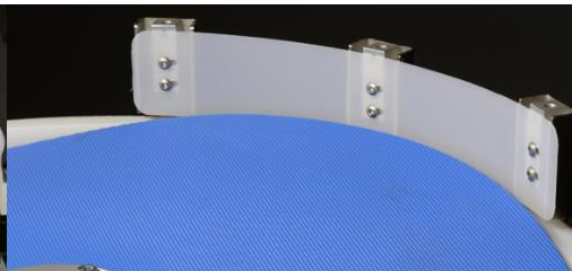












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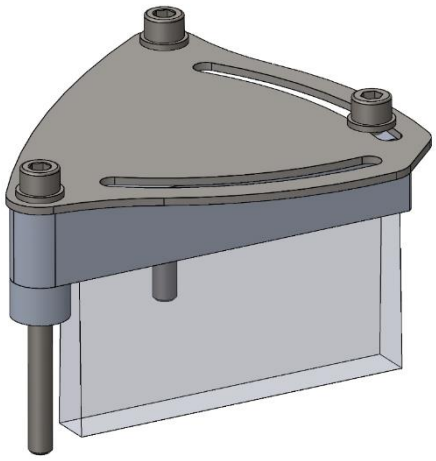
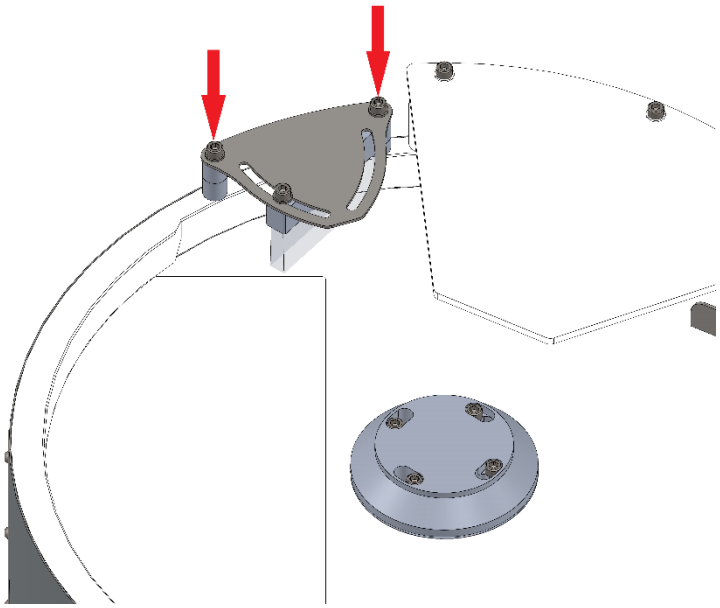
# 1 Brush Diverter Options

## 1.1 Brush Diverter

The **Brush Diverter** option(see image below) is compatible with **Flexibowl®** 500/650/800 models and has the function of moving components away from the edge of the **Flexibowl®** and towards the centre. It is usually placed before the flip unit to ensure that most of the parts are hit by the pulse.
It is usually preferred to the steel diverter when using components that tend to get stuck between the rotary disc and the metal diverter.
The two slots allow the angle of deflection of the brush to be adjusted to suit each type of component

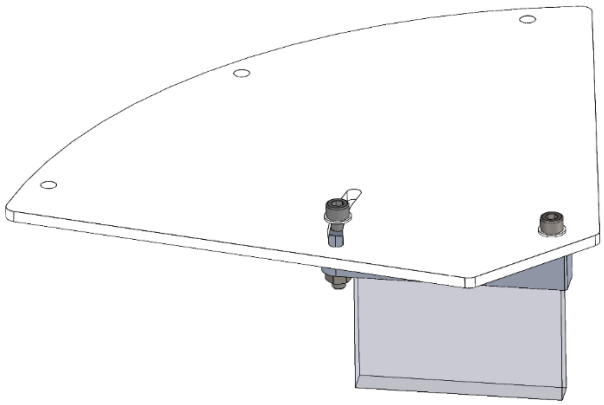


The unit must be fixed directly onto the retaining ring at the holes already present, using two M6 screws(see image below).

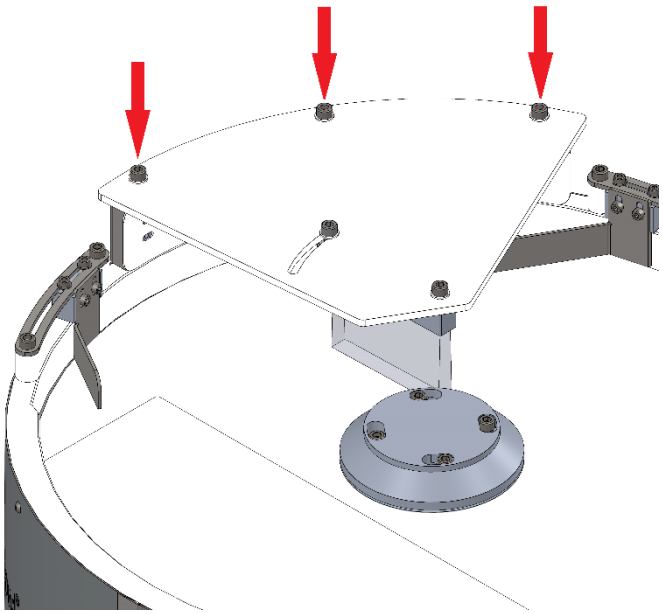


## 1.2 Brush Diverter for Central Flange

The **Brush Diverter for Central Flange** option(see image below) is compatible with **Flexibowl®** 500/650/800 models and is designed to move components away from the central flange to prevent them from building up around it. The slot allows the deflection angle of the brush to be adjusted to suit each type of component.



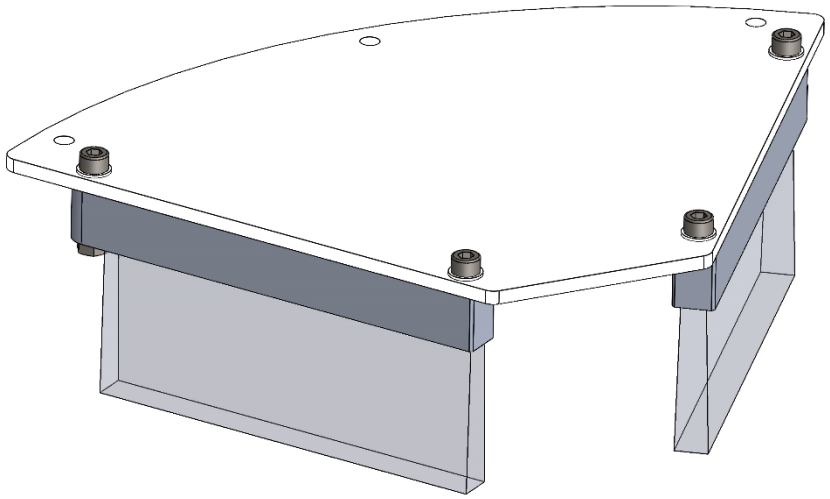
The screen and brush kit replaces the screen supplied with the **Flexibowl®**. The screen is attached to the three rear turrets with M6 screws.



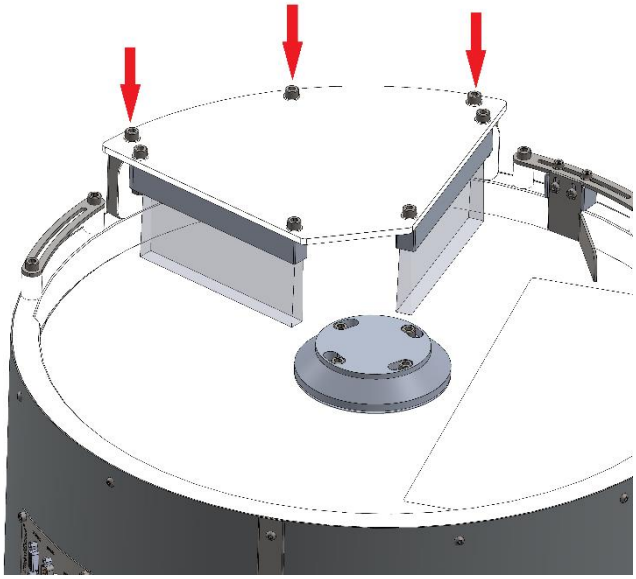
## 1.3 Brush Diverter for Flip Cover

The **Brush Diverter for Flip Cover** option(see picture below) is compatible with **Flexibowl®** 500/650/800 models and has two different functions:

- to contain components that are shaken by the flip unit, thus preventing them from falling out of the **Flexibowl®**
- to untangle and "lie down" components that tend to tangle with each other or assume an upright position during normal operation of the **Flexibowl®**.

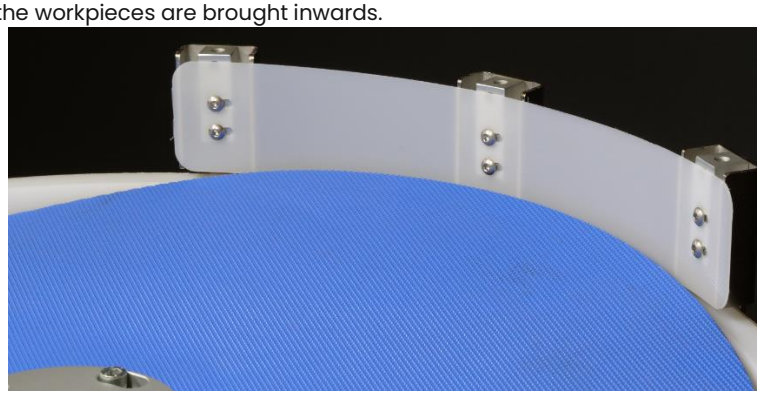


The screen and brush kit replaces the screen supplied with the **Flexibowl®**. Fixing is done on the 3 rear turrets using M6 screws(see picture below).



# 2 Wedge Diverter

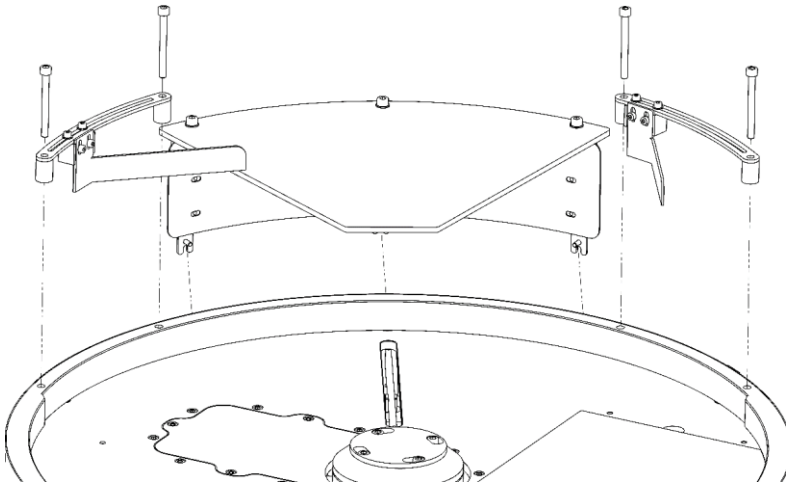
The **Wedge Diverter** option(see image below) is compatible with **Flexibowl®** 500/650/800 models in standard version (C-CC), it is not compatible with any Edge version (200E, 350E and 500E). This option is intended to move components away from the outer edge of the **Flexibowl®** and is particularly suitable for parts that roll or slide easily.
On the **Flexibowl®** table, below the rotary disc, the wedge diverter is installed, a kind of wedge, which gives the rotary disc a suitable slope so that the workpieces are brought inwards.



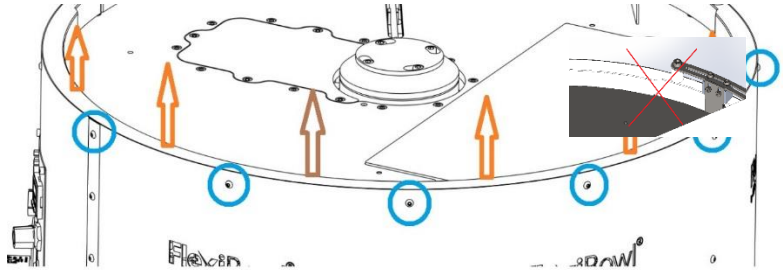
## 2.1 Installation

Follow the steps below to install the **Wedge Diverter** option:

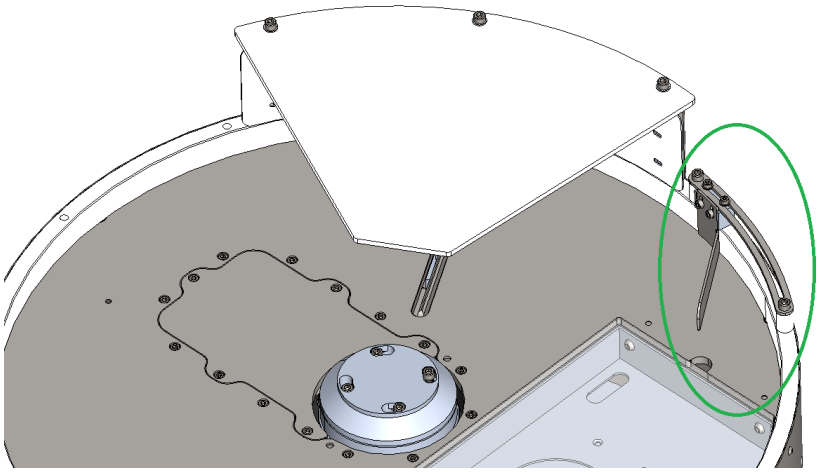
- Unscrew the central flange and remove the belt.
- Remove the two option holders and the upper cover screen of the flip area



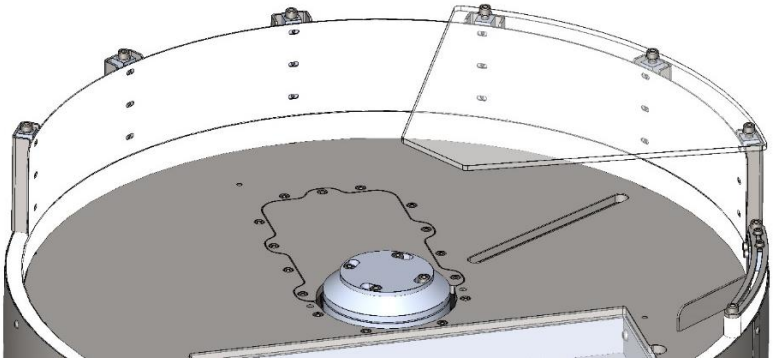
- Remove the top ring of the **Flexibowl®** with belt guiding edge, this type is not compatible with the **Wedge Diverter** option, so it must be replaced with a suitable one; remove all perimeter screws and slide the ring upwards.



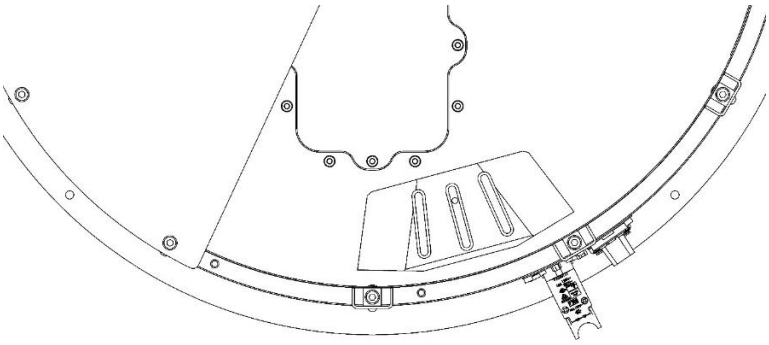
- Install the ring, paying attention to its orientation. All installation holes in the option brackets must match the threads below as before.
- Reinstall the screen and only the option holder before the viewing area.



- Mount the external bulkhead with its supports starting from the last column supporting the screen.



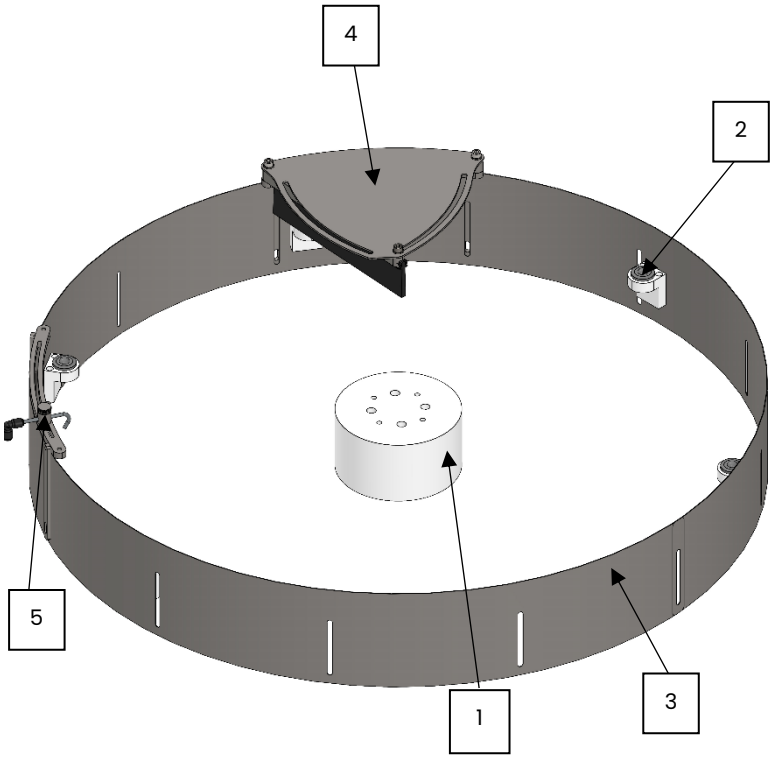
- Mount the wedge in the hole provided, the 3 fixing slots allow you to customise the point and angle of divergence of the components.



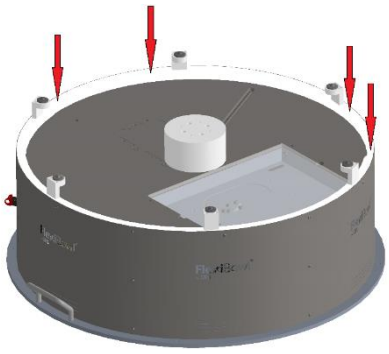
- Reassemble the belt

# 3 Lift Support

The **Lift Support** option(see image below) is compatible with **Flexibowl®** 500/650/800 models and has the function of lifting custom perforated discs to handle components up to a maximum length of 100mm.
The lifting system is compatible with all types of **Rotary Custom Disc**.

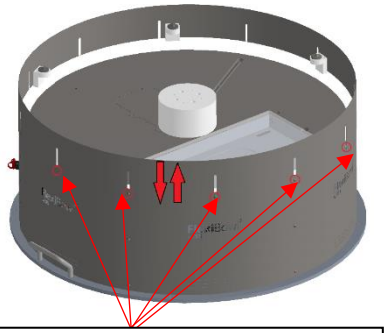



The lifting system consists of a guide ring attached directly to the **Flexibowl®** table and a spacer (1) attached to the disc by means of the fixing screws on the **Flexibowl®** disc premium flange (detail A).
The disc will be supported on the outside by ball-bearing sliding elements (2), fixed directly to the ring, which ensure correct positioning and smooth movement. Containment casings (3) prevent the parts from falling out during handling. These guards are fitted with a special slot that allows their height to be adjusted to suit all types of component (detail B). The unit is also equipped with a brush (4) and a perpendicular blower (5) to remove pieces that tend to accumulate along the external edges of the disc. The position of the blower can be adjusted via the slot in the fixing bracket, and the deflection angle and height of the brush can be changed as required via the slots provided.



Detail A

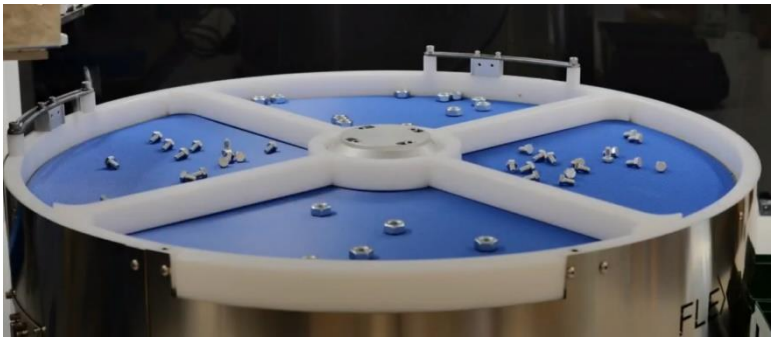
Detail B



Loosen the casing fixing screws, adjust the height of the containment casings, retighten the screws.

# 4 Multiple Sectors Rotary Disc

The **Multiple Sectors Rotary Disc** option is compatible with sizes 800/650/500 in standard version (C-CC), it is not compatible with any Edge version (200E, 350E and 500E). It allows several types of components to be fed simultaneously into the same Flexibolw.



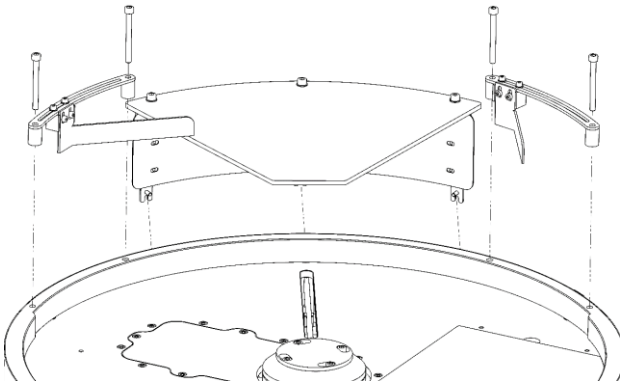
Depending on the requirements of the application, discs with:

- 2 x 180° sectors
- 3 x 120° sectors
- 4 x 90° sectors
- 6 x 60° sectors

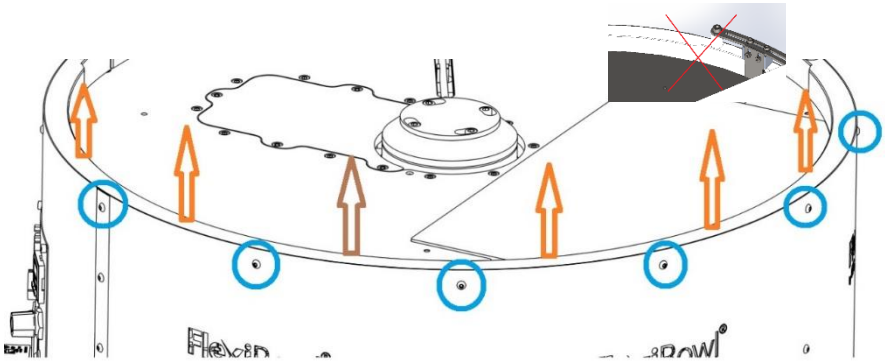
**Note**: Discs can mount one or more different surfaces.

## 4.1 Installation

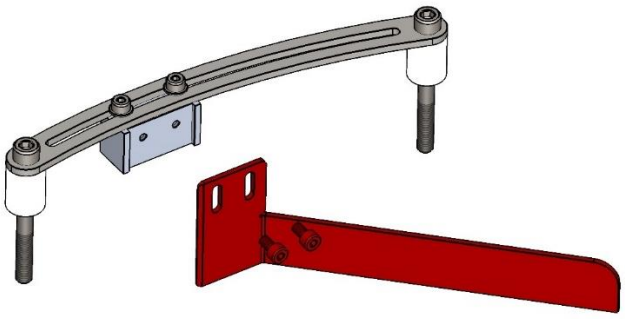
Follow the steps below to install the **Multiple Sectors Rotary Disc** option:

- Unscrew the central flange and remove the belt.
- 
- Remove the two option holders and the upper cover screen of the flip area.

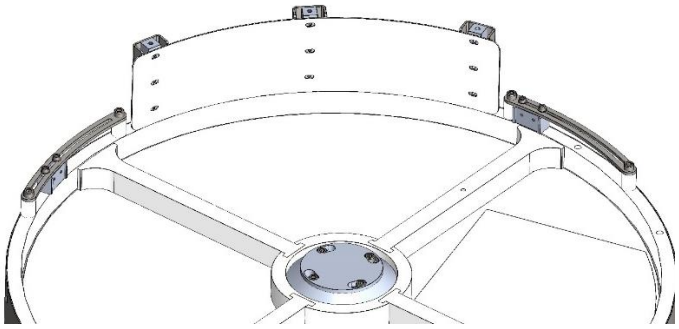
- Remove top ring of **Flexibowl®** with belt guiding edge. This type is not compatible with the **Multiple Sectors Rotary Disc** option, so it must be replaced with a suitable one by removing all the perimeter screws and sliding the ring upwards.



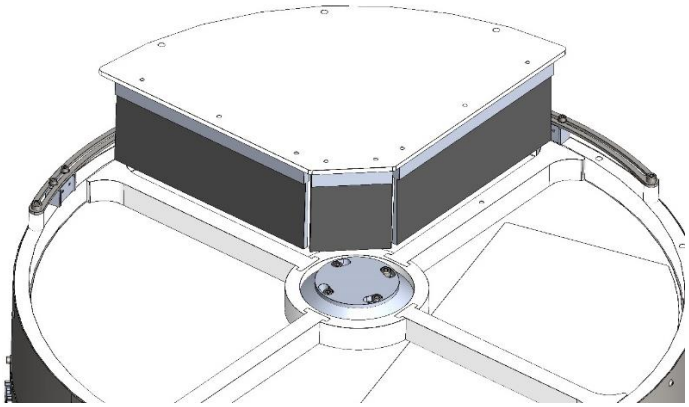
- Install the ring, paying attention to its orientation. All installation holes in the option brackets must match the threads below as before.
- Remove all diverters and fix the previously removed option supports.



- Install the **Multiple Sectors Rotary Disc**
- Refit the protective screen supports in the flip area.

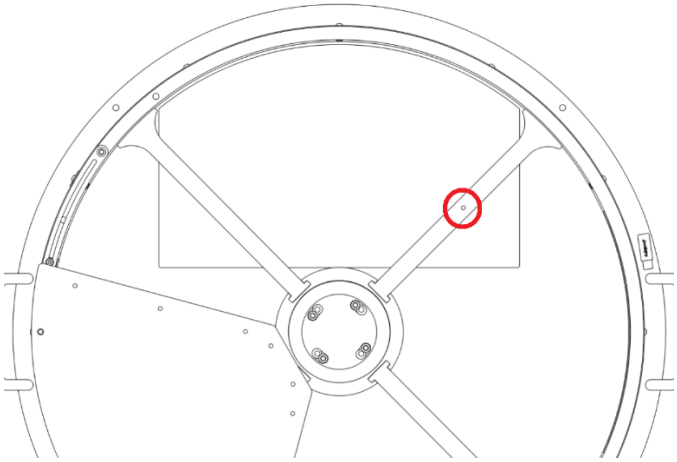


- Mount the shield for the **Multiple Sectors Rotary Disc** option.

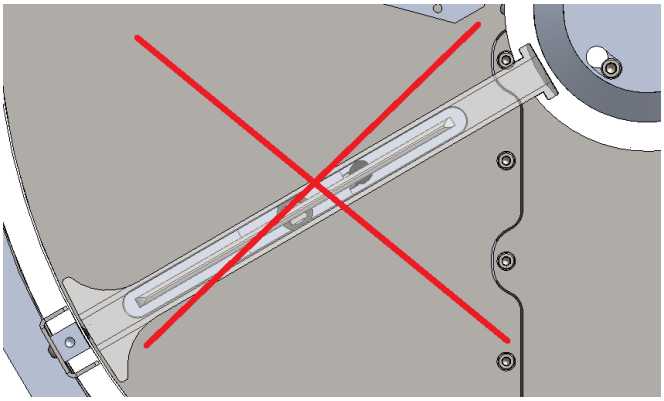


## 4.2 Timing

In order to use the Multiple sectors rotary disc option, it is necessary to perform a timing operation to know the location of the various sectors. Timing must be carried out using a vision system that recognises the exact position of the hole in one of the disc spokes.



**Note**: It is very important that when the flip is operated the spokes never fall above this area (see image below).



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