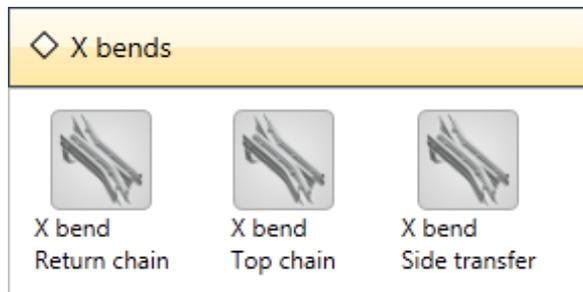


# Working with X-bends

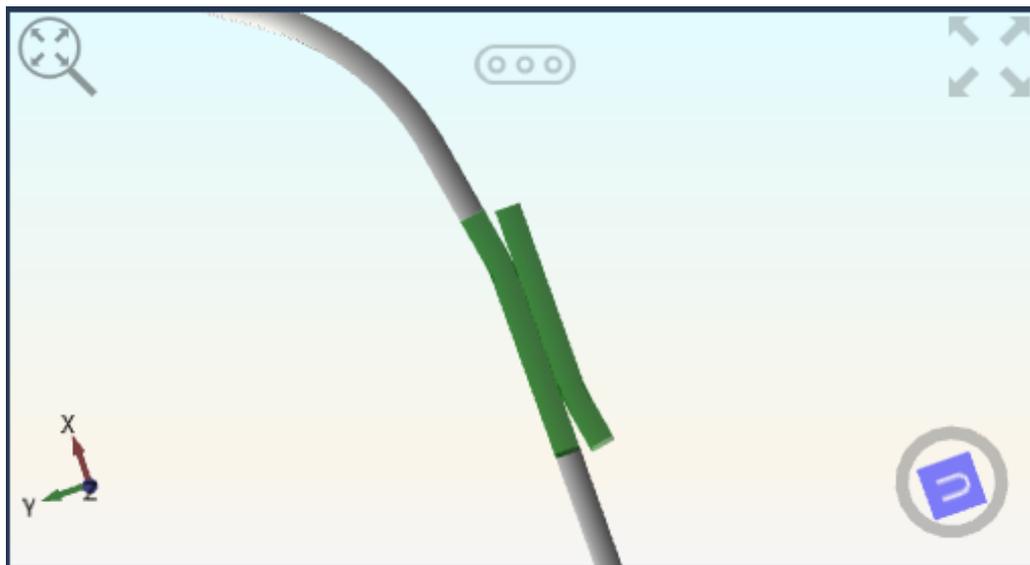
Last Modified on 05/11/2019 1:12 pm CET

There are three types of *X-bend* components that you can use in FlexLink Calculation Tool: **Return chain**, **Top chain** and **Side transfer**.



## Return chain and Side transfer

Working with types **Return chain** and **Side transfer** are straightforward; They are behaving much like the bend and beam components. Only one side of the x-bend is part of the calculated conveyor, the second side is merely an appendage and can not be connected to other components.



## Top chain

The **Top chain** type of *X-bend*, also known as L/R type, is an *X-bend* component where both sides are included in the calculation. This means that the components coming from one side of the X-bend will eventually attach to the other side of the X-bend to form a closed loop.



When a **Top chain** component is drag-and-dropped into the component list, two **X-bend** components are added; They are numbered '1' and '2' in the upper right corner.

Component	Length	Tension	Slope
 1 X bend XLCX 65 ← 10 400	652	0 N	0°
 2 X bend XLCX 65 10 400	652	0 N	0°

- Components that are dropped above **X-bend '1'** in the list will be counted as being before the **X-bend** loop.
- Components that are dropped between **X-bend '1'** and **X-bend '2'** will be counted as components that forms the loop of the **X-bend**.
- Component that are dropped after **X-bend '2'** will be counted as components after the **X-bend** loop.

Note that **top chain X-bends** cannot be reordered once created, you need to drag-and-drop the other

components to achieve the desired layout. Also, when a ***top chain X-bend*** component is deleted from the component list, both ***top chain X-bend*** components are automatically deleted.