

Subsequent conveyor positioning

Last Modified on 05/11/2019 1:35 pm CET

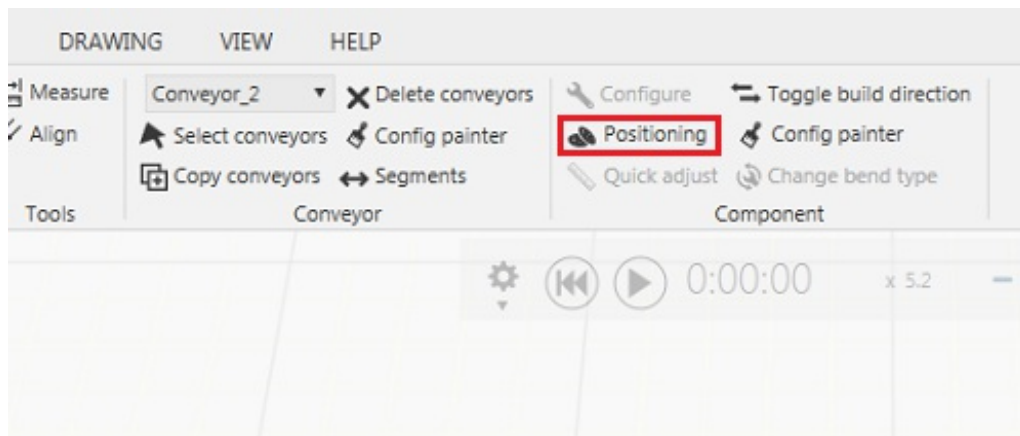
There are several methods to position a subsequent conveyor in FlexLink Design Tool. I.e. position an idler end unit at a specific distance from an end drive unit. Manual positioning by entering coordinates values in the Component Properties Panel is the most complex and difficult. Using the Positioning feature at Home tab is better. However, the easiest and quickest method is to use the Virtual Bridge component. This article describes the latter two.

Positioning feature

To use Positioning a fixed and a movable component is first selected. The relative positioning between selected points (interfaces) on these two components can then be manipulated in the Relative positioning panel.

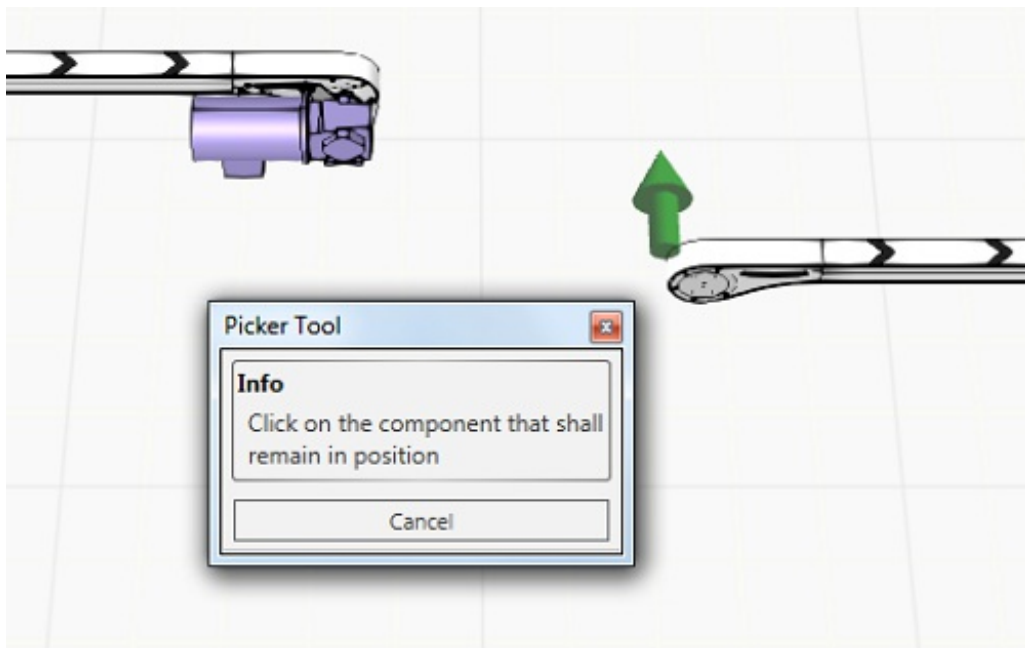
Select the idler end unit on the subsequent conveyor.

Select **Home tab -> Component group -> Positioning button**.



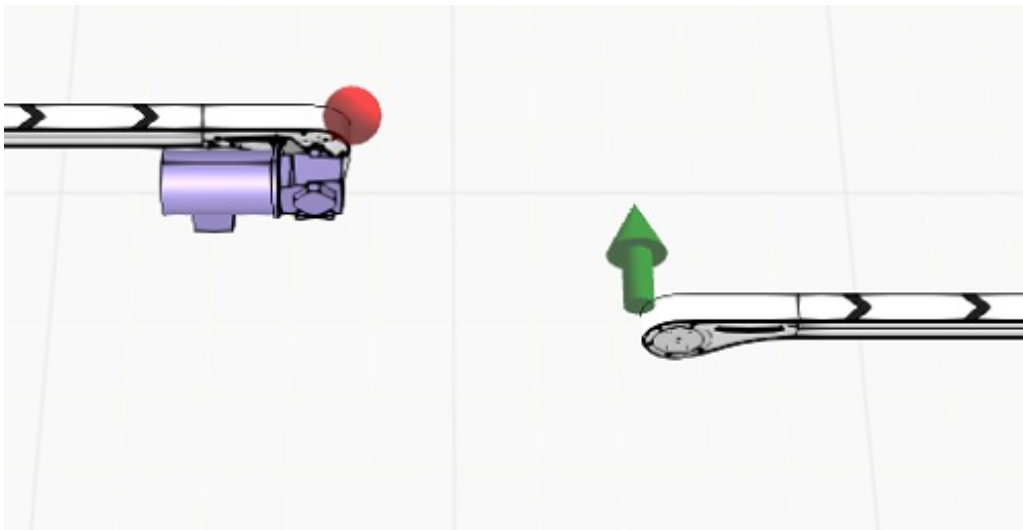
Positioning is now activated and the Relative positioning panel is displayed.

The pop-up window "Picker Tool" is also displayed.



Select the component that shall remain in position. In this case the end drive unit on the first conveyor.

A read dot indicates the fixed point.



Select **In** in the **Interface drop-down menu** for the movable component.

Select **Out** in the **Interface drop-down menu** for the fixed component.

Select **CC distance radio button**. Make sure to use the correct direction radio button, as indicated by the green arrow.

Enter distance value **0**.

Relative positioning

Move components relative other components.

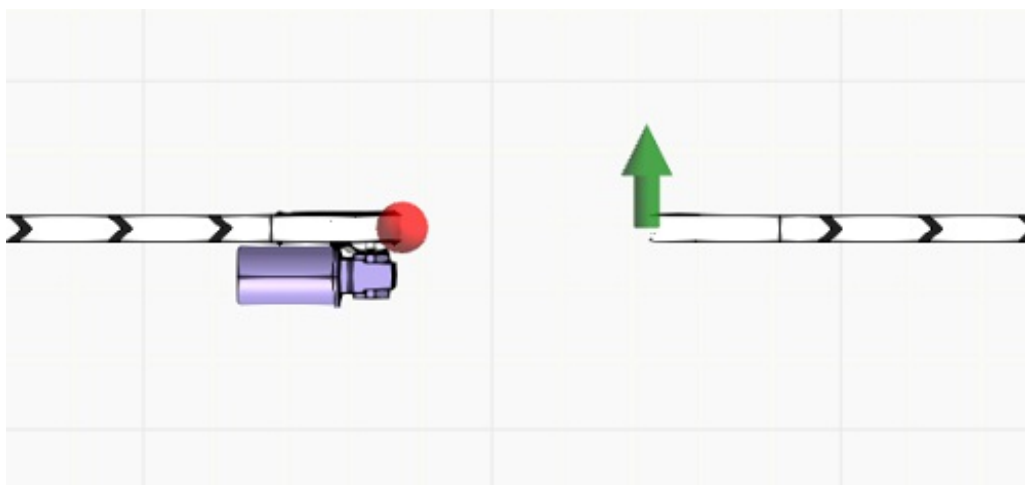
Moveable component
 Idler #2

Fixed component
 EndDrive

▼ Set orientation
 Angle (now 0) deg

▼ Position
 Position relative to fixed component
 CC distance
 In-line
 Top of chain
 Distance (now 0) mm

Click the **Move component button** to get the conveyors in-line.



Select the **In-line radio button**. Make sure to use the correct direction radio button.

Enter the desired distance between the end drive unit and the idler end unit.

Relative positioning ↑ ×

Move components relative other components.

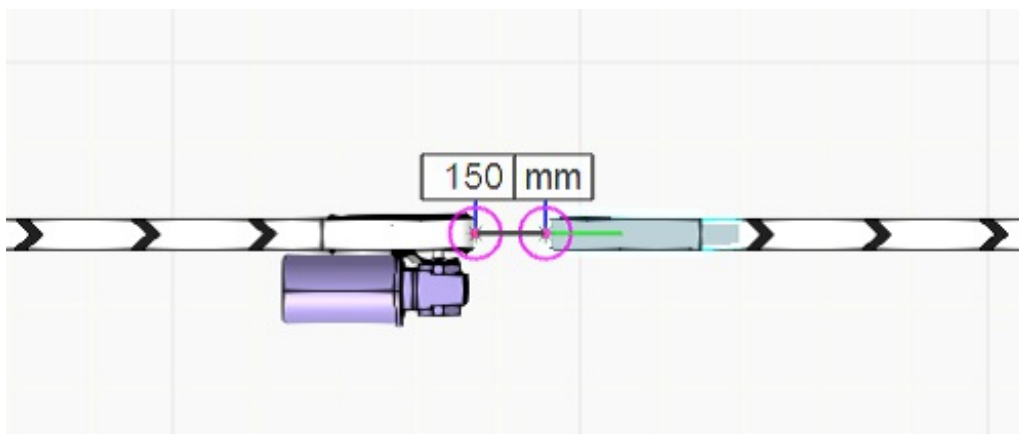
Moveable component
 Idler #2 In +

Fixed component
 EndDrive Out +

▼ Set orientation
 Angle (now 0) deg

▼ Position
 Position relative to fixed component
 CC distance
In-line
 Top of chain
 Distance (now 150) mm

Click the **Move component button** to get the final position of the subsequent conveyor.



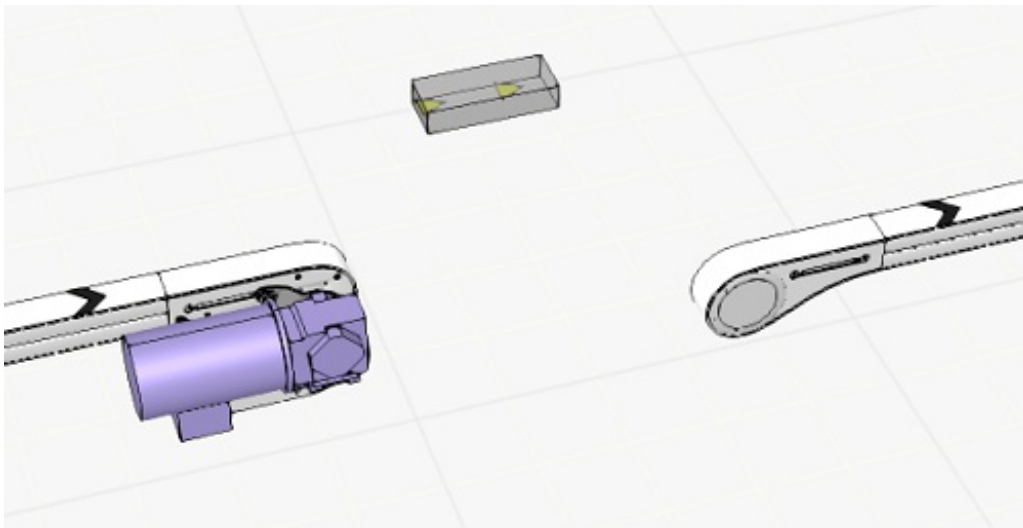
Note: The selected points (interfaces) in the example above are the same as the segment points. These points include a safety margin for chain rotation and wear.

Virtual bridge

By using the Virtual bridge component and Plug-and-Play, the positioning of conveyors is very quick and easy. The Virtual bridge also provide a set of parameters for offset and angle connection. It is also required for product transfer in simulations.

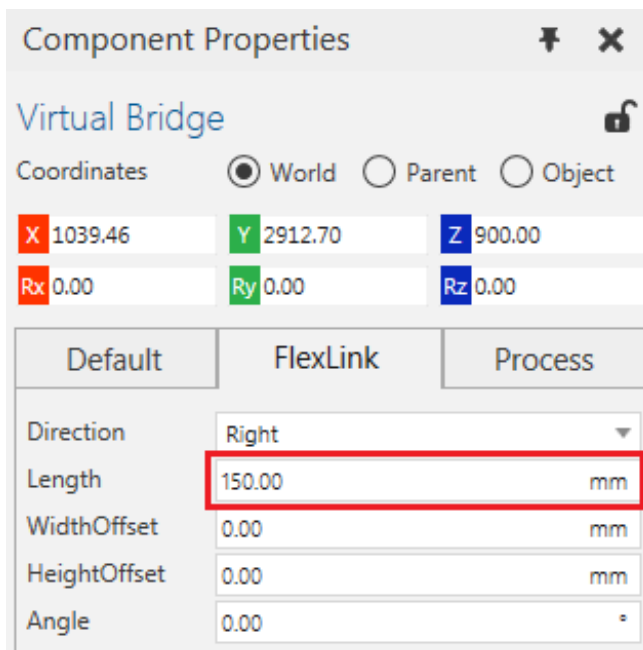
More information about the Virtual bridge component in simulations can be found in the following knowledge base article: <https://kb.flexlink.com/help/fltd-how-to-use-the-virtual-bridge>

Drag-and-drop a **Virtual bridge component** from the eCatalog Miscellaneous folder to the 3D-world.

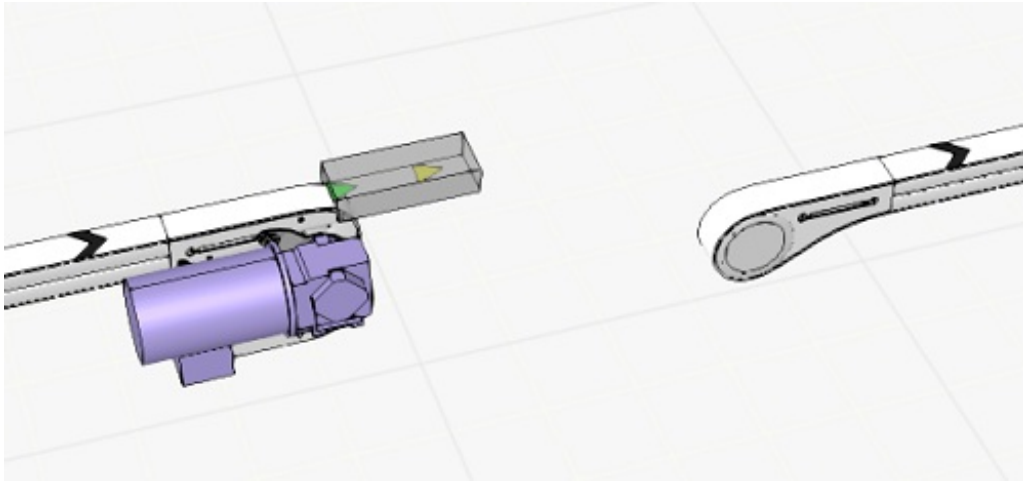


Select the **Virtual bridge component**.

Set the parameters in the Component Properties panel. E.g. the length 150 mm.



Snap the Virtual bridge to the end drive unit on the first conveyor.



Select the complete subsequent conveyor by using **CTRL + SHIFT + A** or **Home tab -> Conveyor group -> Select conveyors**.

Snap the subsequent conveyor to the Virtual bridge.

Make sure the interfaces are properly connected by checking that the two small triangles on the virtual bridge is green colored.

