

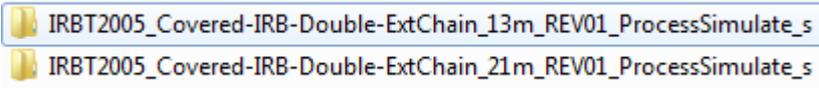
# Changing length of ABB track in Process Simulate

All IRBT Tracks are delivered with max length. This guide will help you to modify the track to any track length.

Changing a tracks to a desired length can be divided into 6 steps. These are:

- Changing length of ABB track in V5 Robotics ..... 1
  - 1. Create new folder ..... 1
  - 2. Delete sections ..... 3
  - 3. Define new joint limits ..... 5
  - 4. Save ..... 6

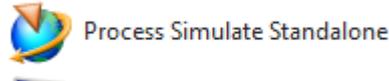
- 1. Create new folder
  - 1.1 Copy and rename your file to an appropriate name
  - 1.2 Start Process Simulate and open the New COJT



Also Rename the .cojt to something appropriate

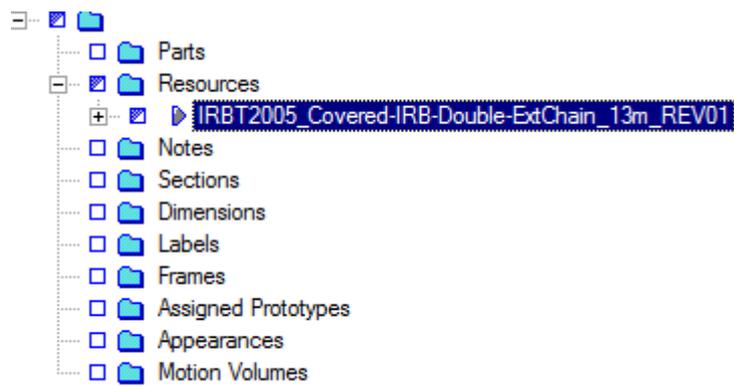


Start

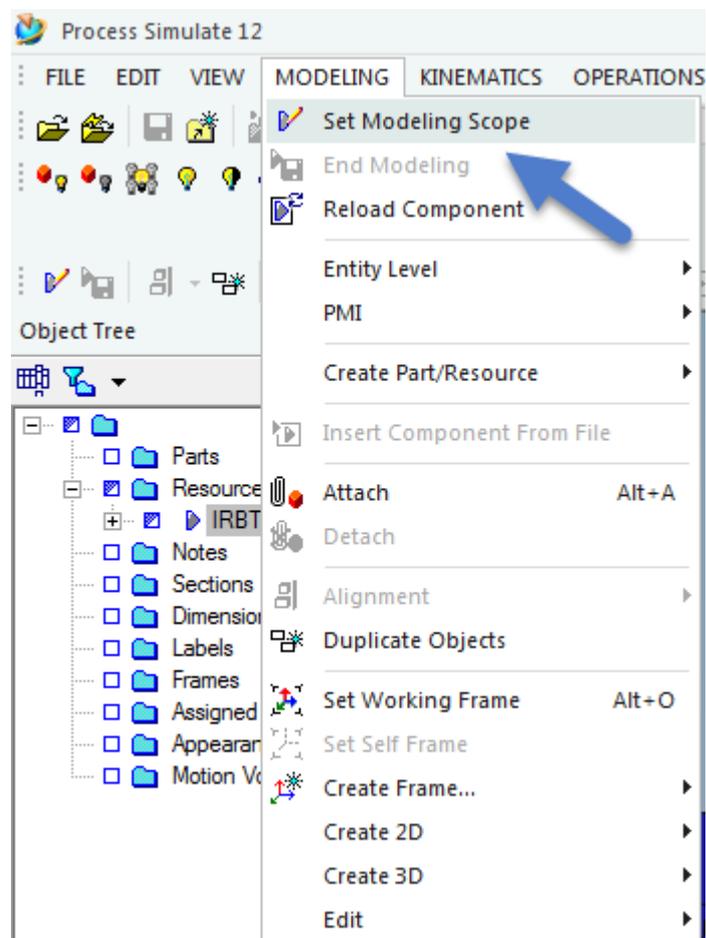


Open The cojt

Rename the resource



Set the resource in modelling



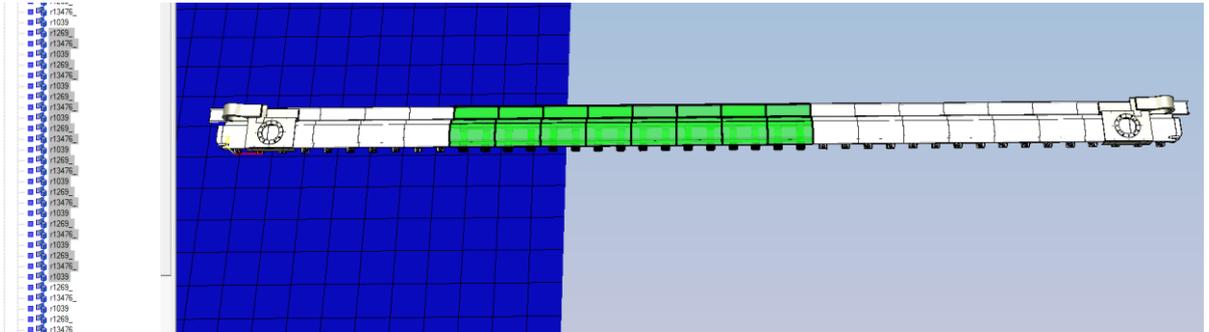
## 2. Delete sections

The general rule for calculating how many sections that should be deleted is:

$$\text{Number of sections to be deleted} = \text{Travel length of max length track} - \text{Travel length on wanted track}$$

Example:  $21\text{m} - 13\text{m} = 8 \text{ sections}$

### 2.1 Select 8 sections



#### 2.1.1

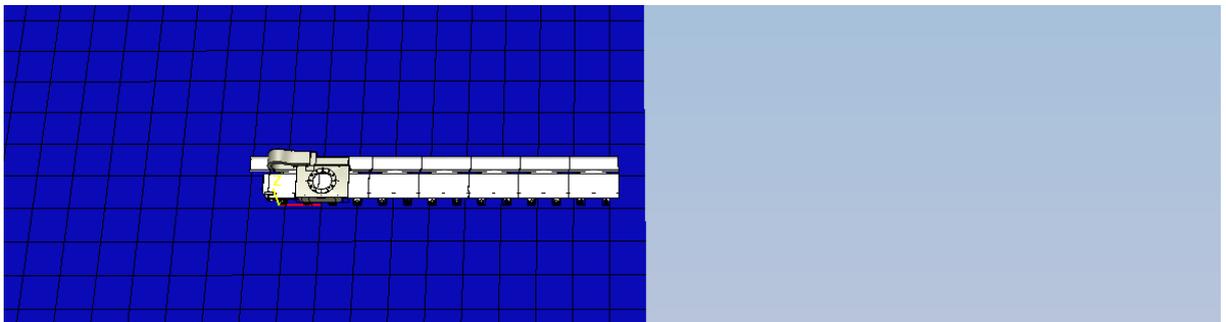
### 2.2 Delete



#### 2.2.1

2.3 Note how many sections from the left is left.

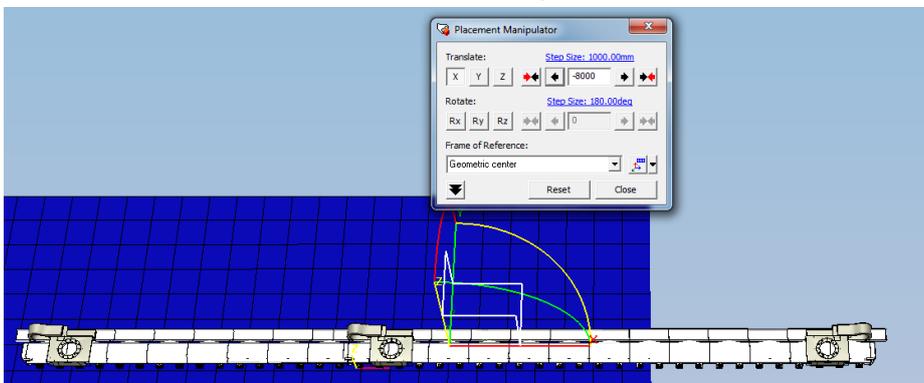
2.4 Delete the rest of the entities to the right, including the entities in the right side link (if there is one)



#### 2.4.1

2.5 Now, open the "original" track, (ontop of the new one)

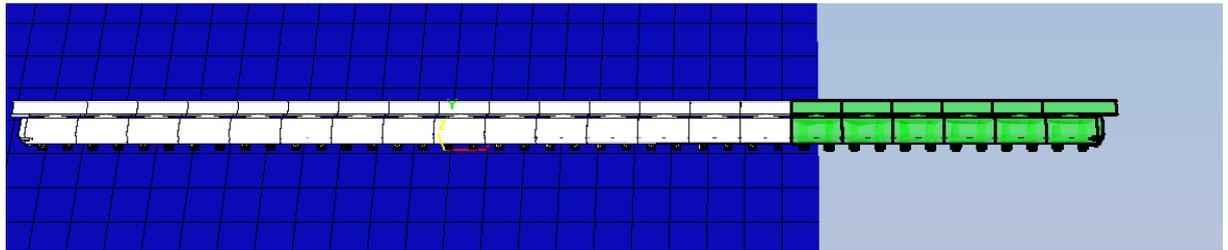
2.6 Translate it as much as the new one is shortened, 8 meter in this case.



#### 2.6.1

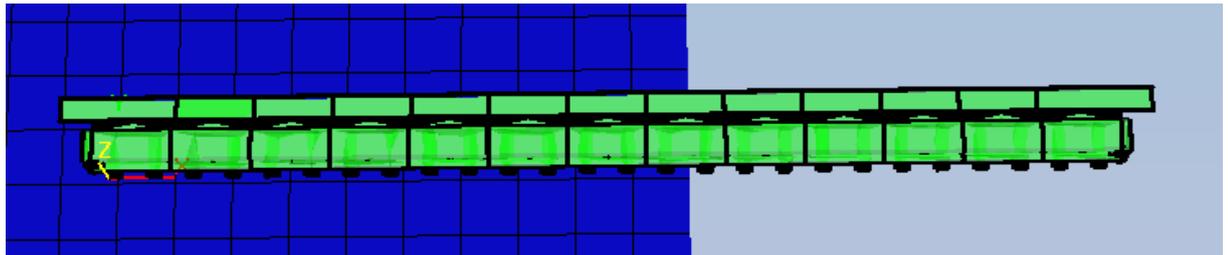
2.7 Put it into modelling

2.8 Copy the right side of the track



2.8.1

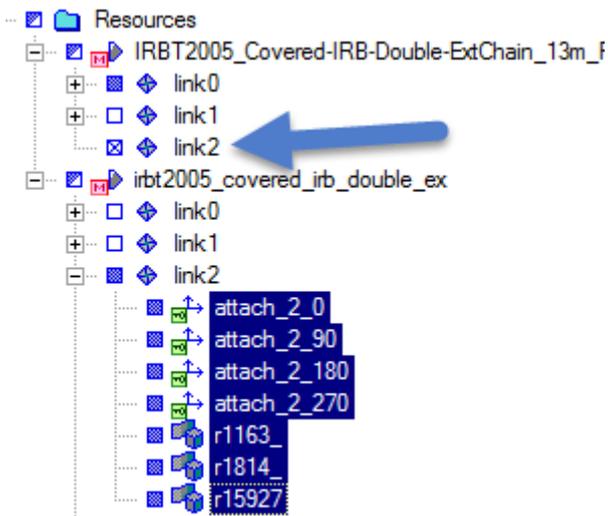
2.9 Paste it into the "link0" node in the new track



2.9.1

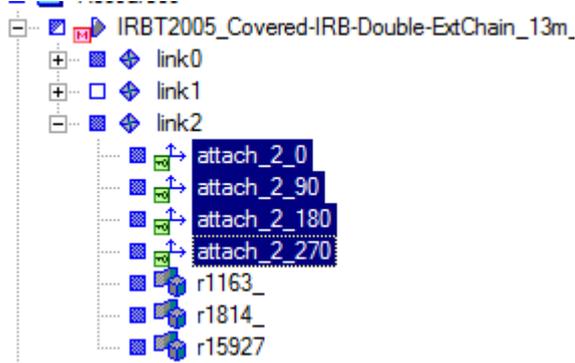
2.10 Copy the entities from Link2 (if you are working on a track with multiple carriers)

2.11 Paste it into Link2

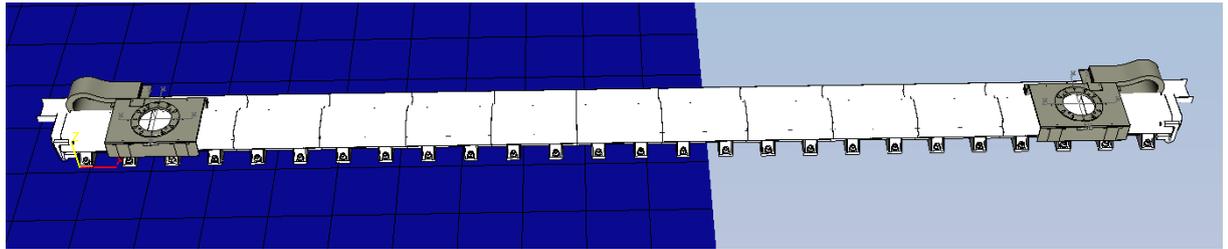


2.11.1

2.12 Make the frames "preserved"



2.12.1

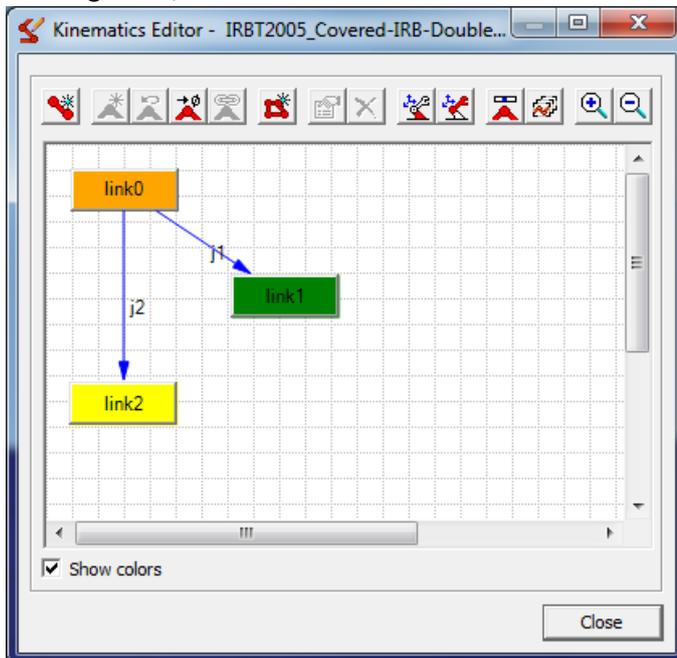


2.12.2

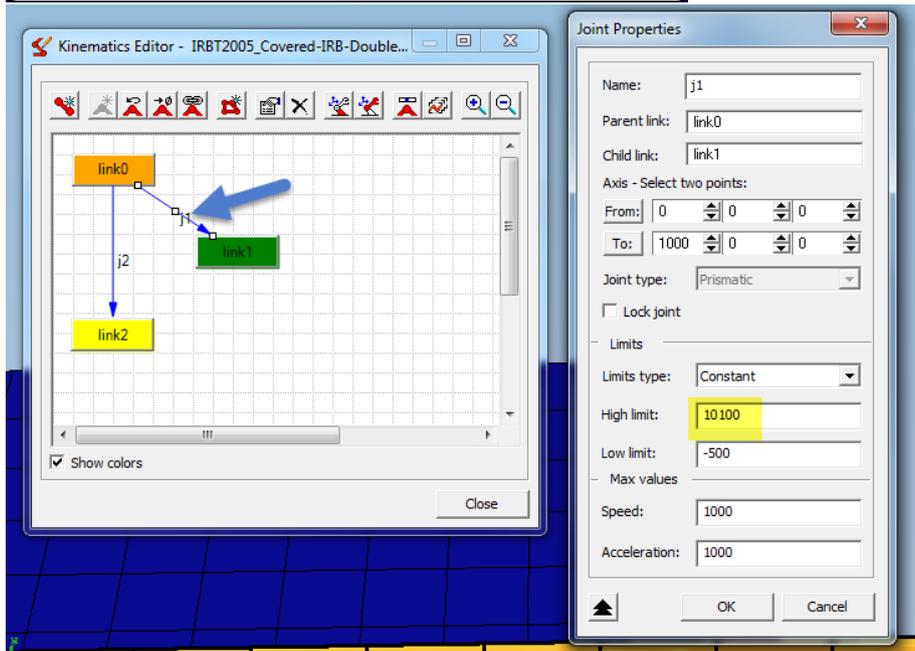
2.13 Now you may remove the “original” track

### 3. Define new joint limits

3.1 The existing value, minus 8 meters in this case



3.1.1



3.1.2

3.2 Do this for all limits (if more than one carrier)

#### 4. Save

End modelling to save the component

Done!

