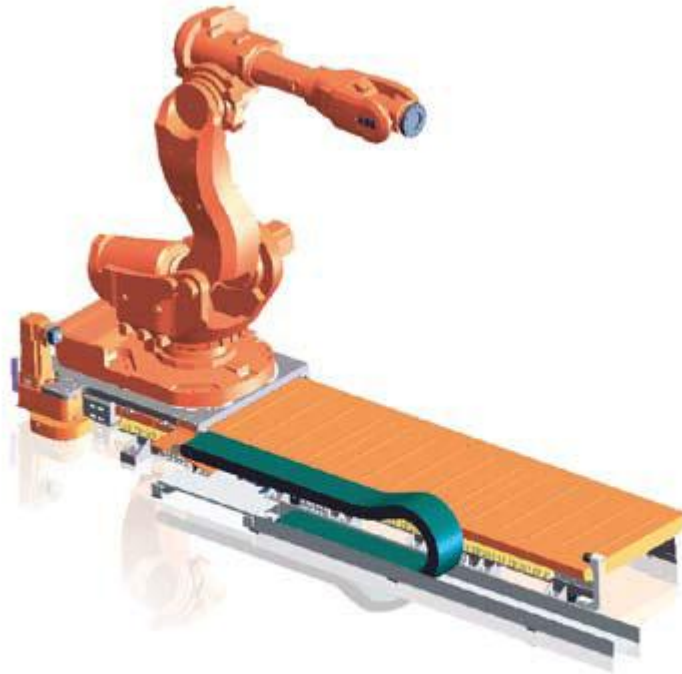


IRBT DELMIA V5 Track Guide to modify



Guide to modify IRBT DELMIA V5 Track

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

Exempel:

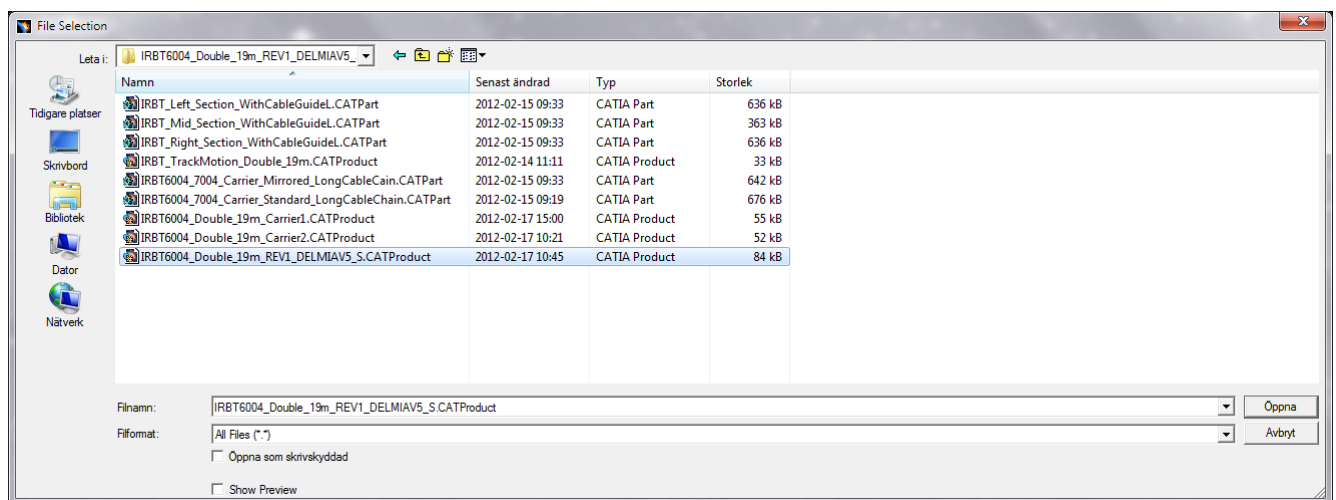
You downloaded the IRBT6004_Double_20m but need a IRBT6004_Double_7m.

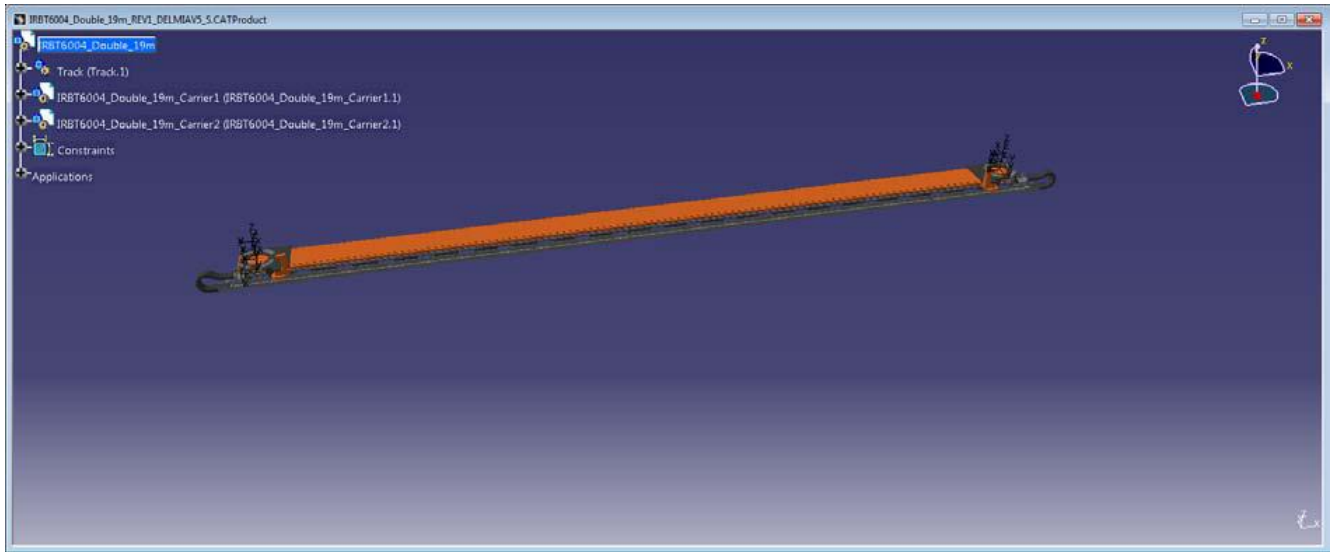
The Change will be done in 4 steps.

- Renaming of ASSEMBLYS
- Modify Geometry
- Change Parameters (Upper Limits and Home Position, Direction)
- Test Kinematic

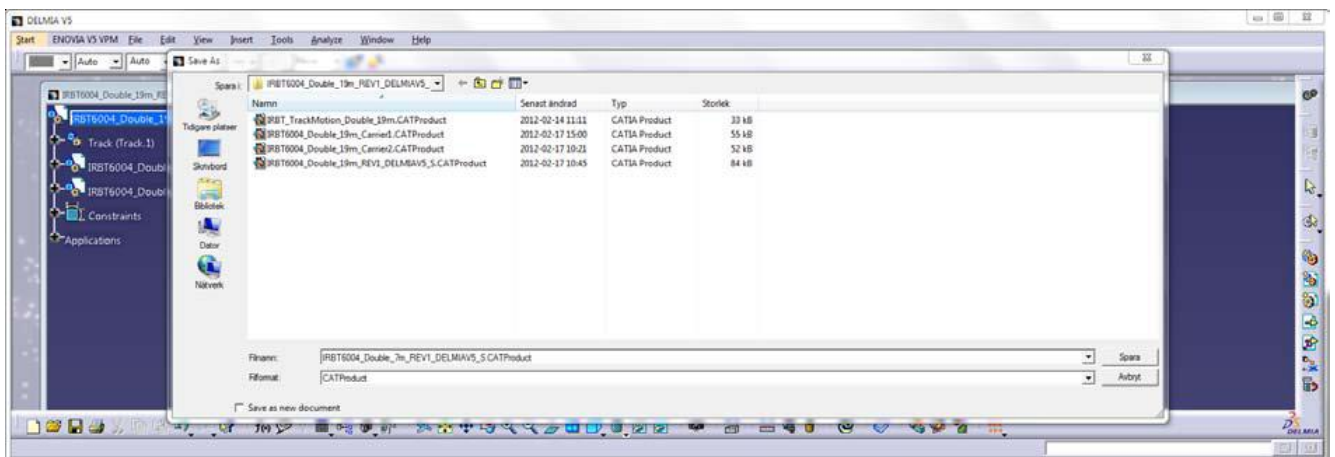
Renaming of ASSEMBLYS

OPEN IRBT6004_Double_20m_REV1_DELMIAV5_S.CATPRODUCT

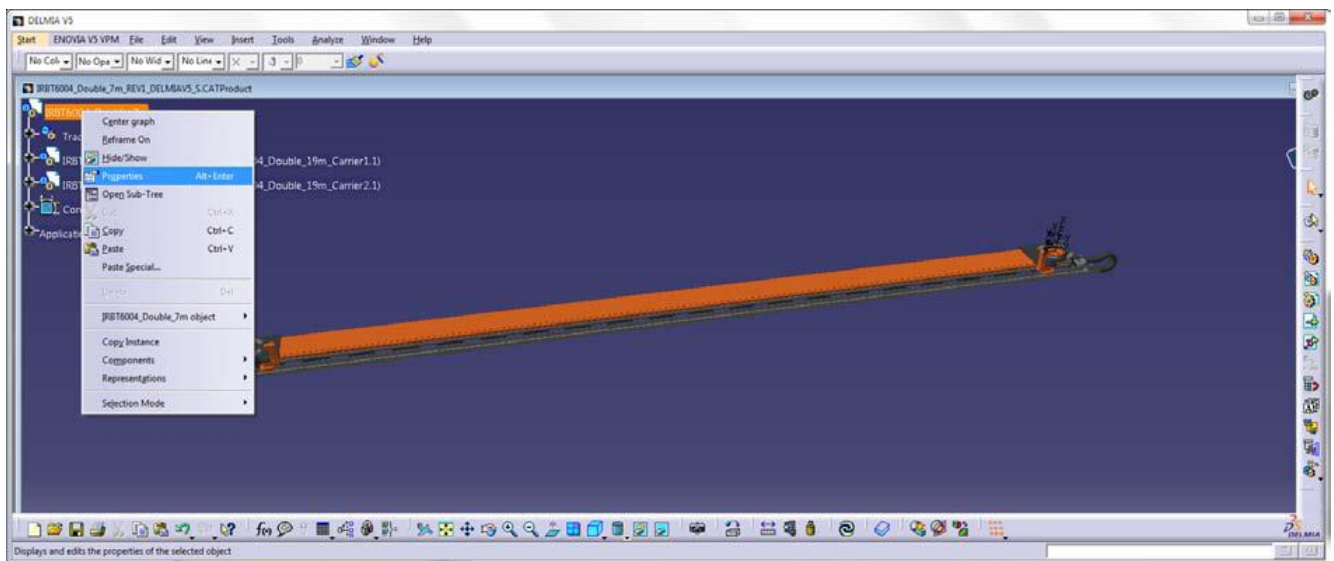




File->Save As IRBT6004_Double_7m_REV1_DELMIAV5_S.CATPRODUCT



Change Name of to IRBT6004_Double_7m_REV1_DELMIAV5_S
Right-click -> properties



Properties

Current selection : IRBT6004_Double_7m

Product | Graphic | Mechanical | Drafting

Product

Part Number : IRBT6004_Double_7m

Revision :

Definition :

Nomenclature :

Source : Unknown

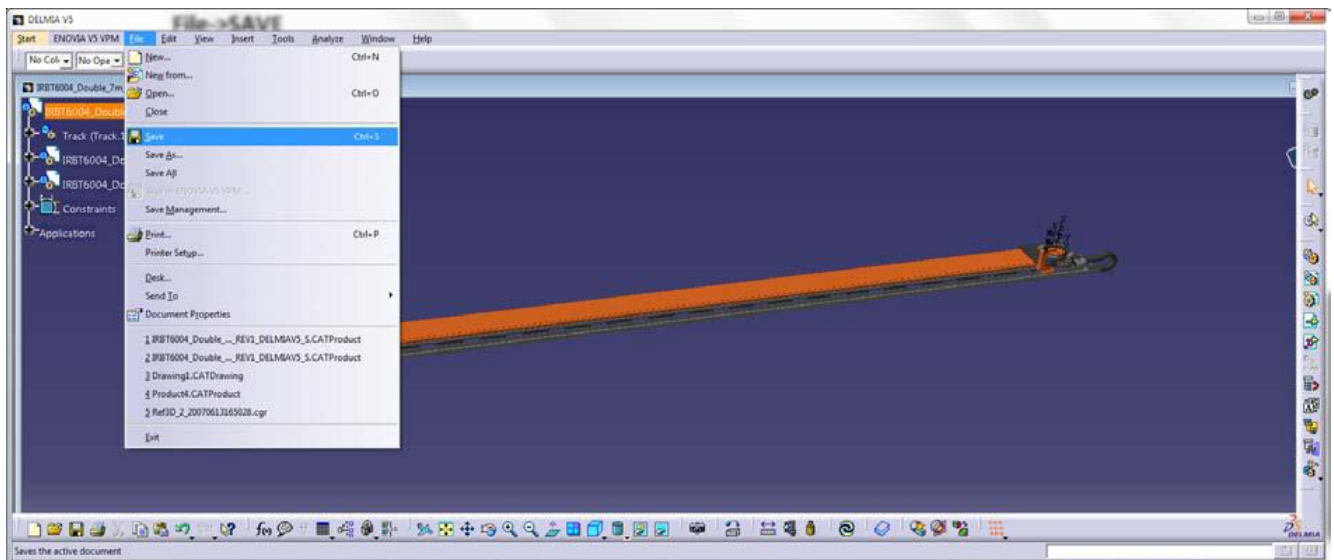
Description :

Define other properties...

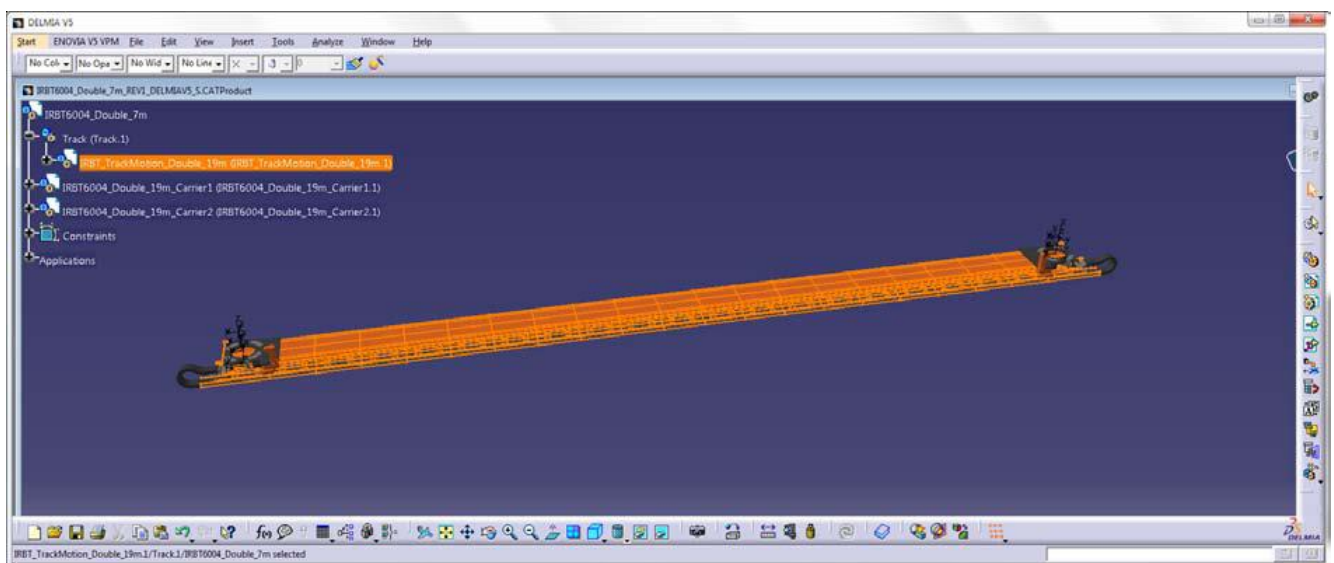
More...

OK Apply Close

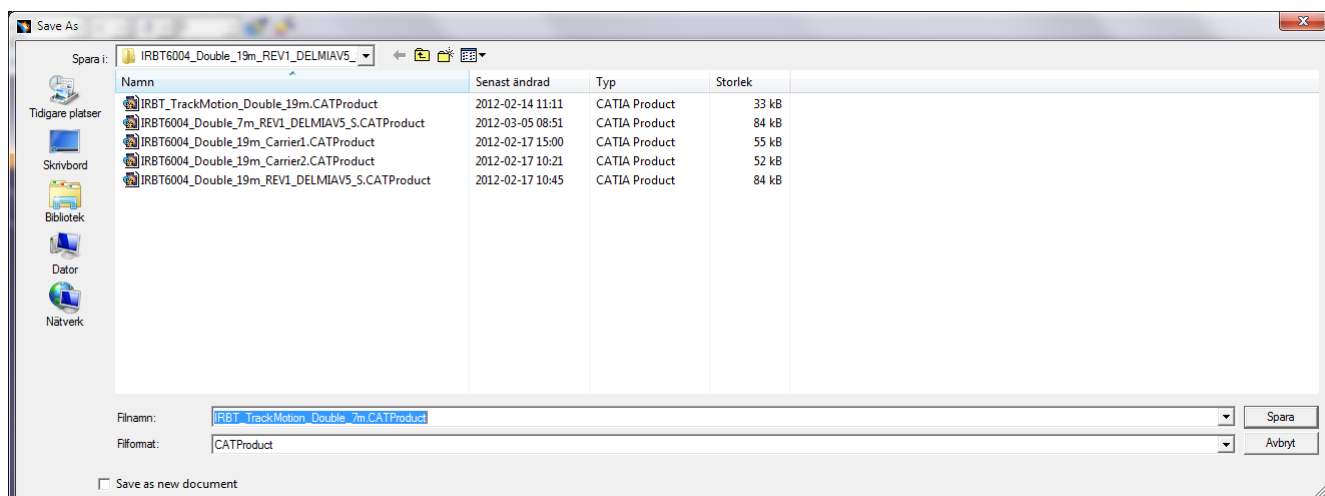
File->SAVE



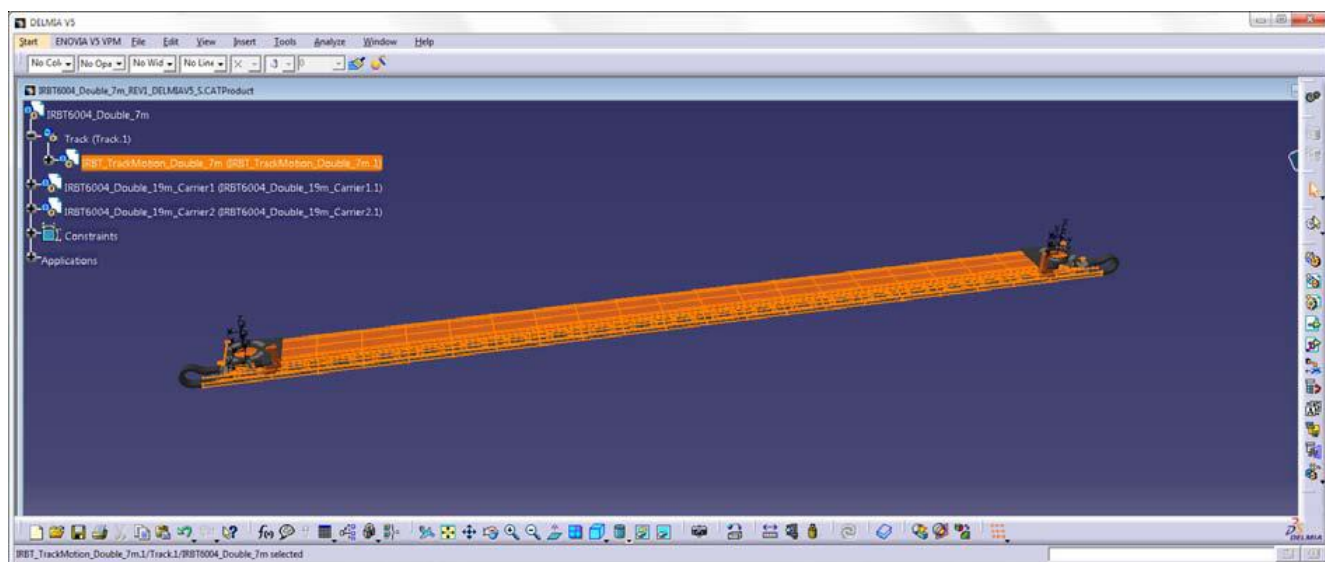
SELECT IRBT_TrackMotion_Double_19m



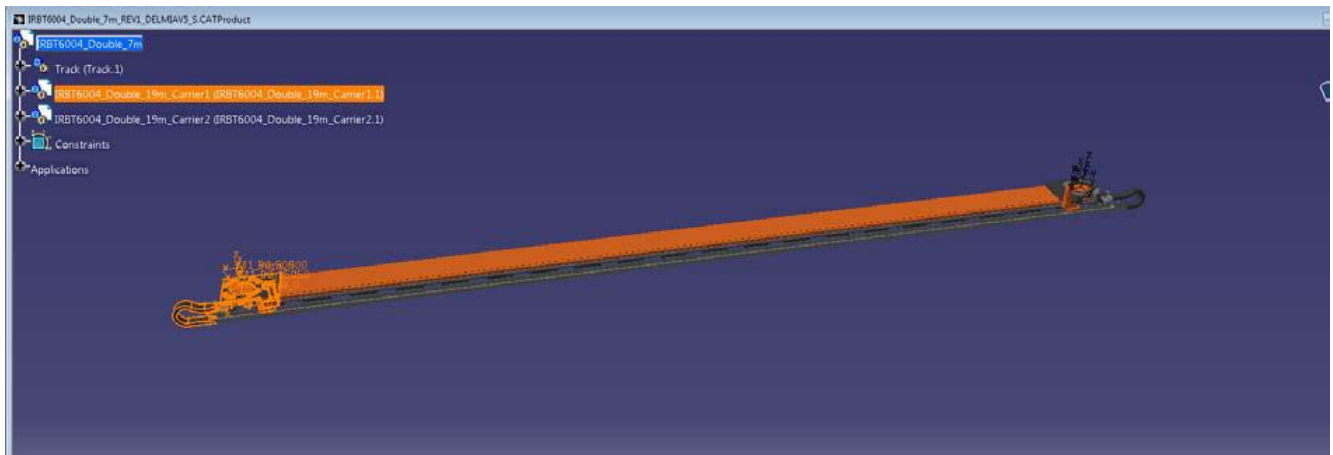
SAVE AS IRBT_TrackMotion_Double_7m.CATProduct



Change name to IRBT_TrackMotion_Standard_7m



Select IRBT_6004_Double_19m_CARRIER1



SAVE AS IRBT6004_Double_7m_Carrier1.CATProduct

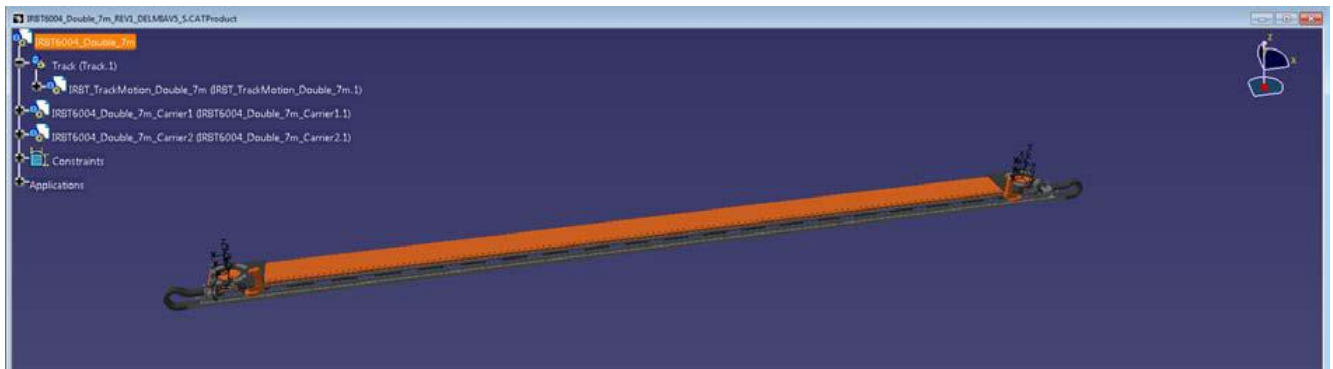
Change name to IRBT6004_Double_7m_Carrier1

Select IRBT_6004_Double_19m_CARRIER2

SAVE AS IRBT6004_Double_7m_Carrier2.CATProduct

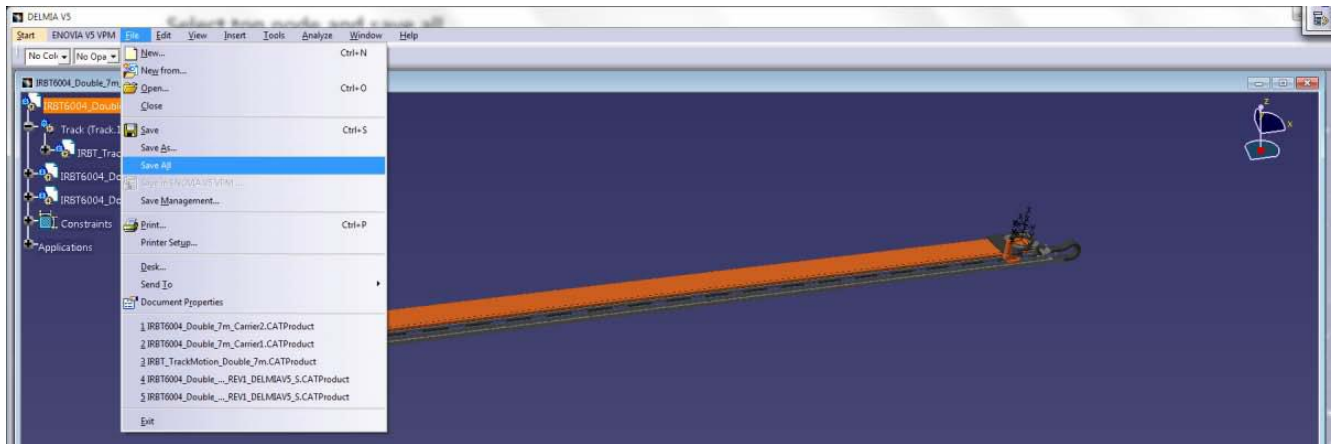
Change name to IRBT6004_Double_7m_Carrier2

Now the it should look like this.



File->SAVE All

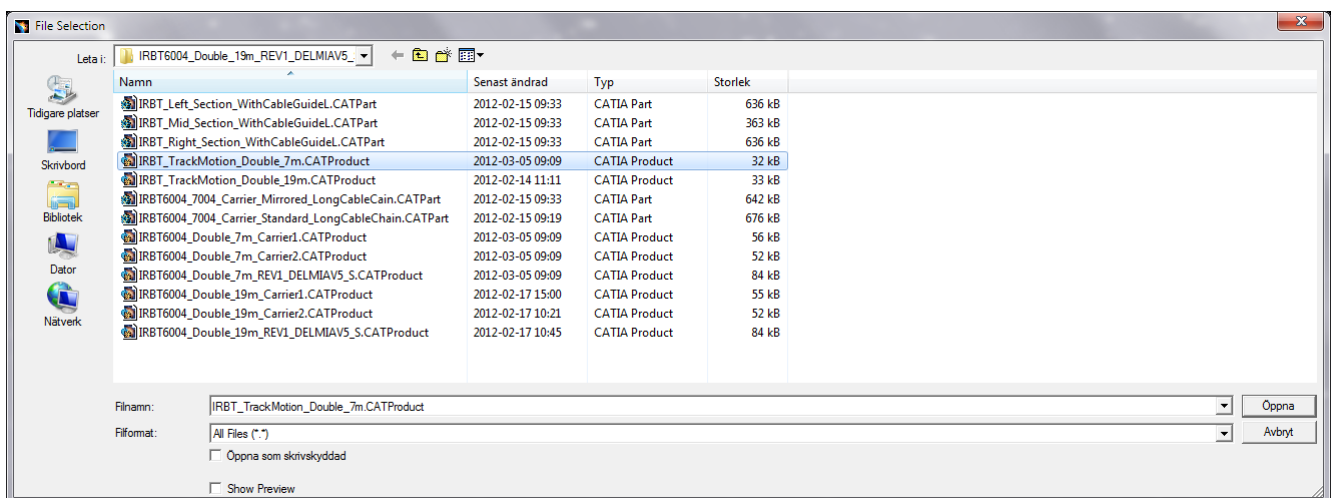
Select top node and save all



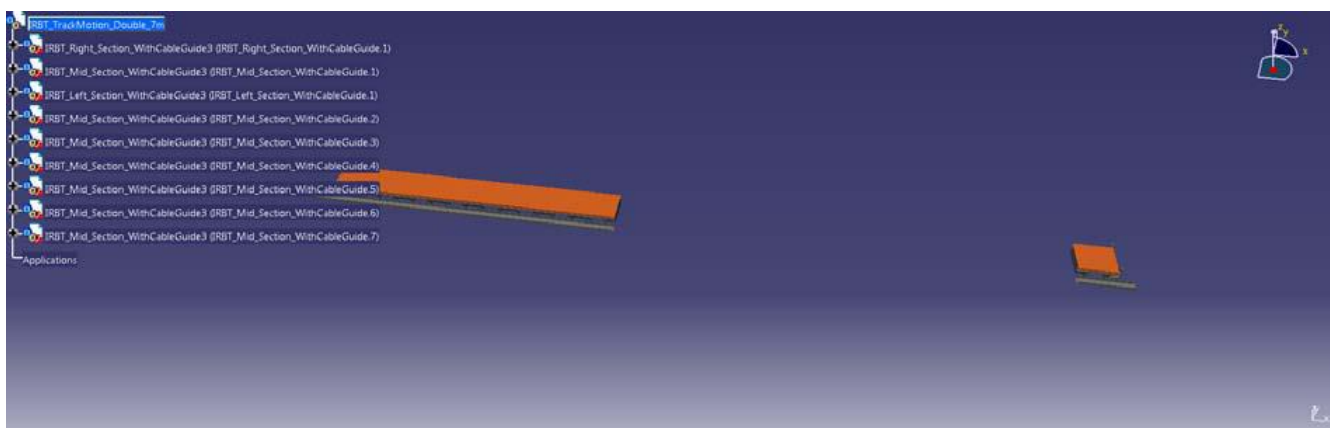
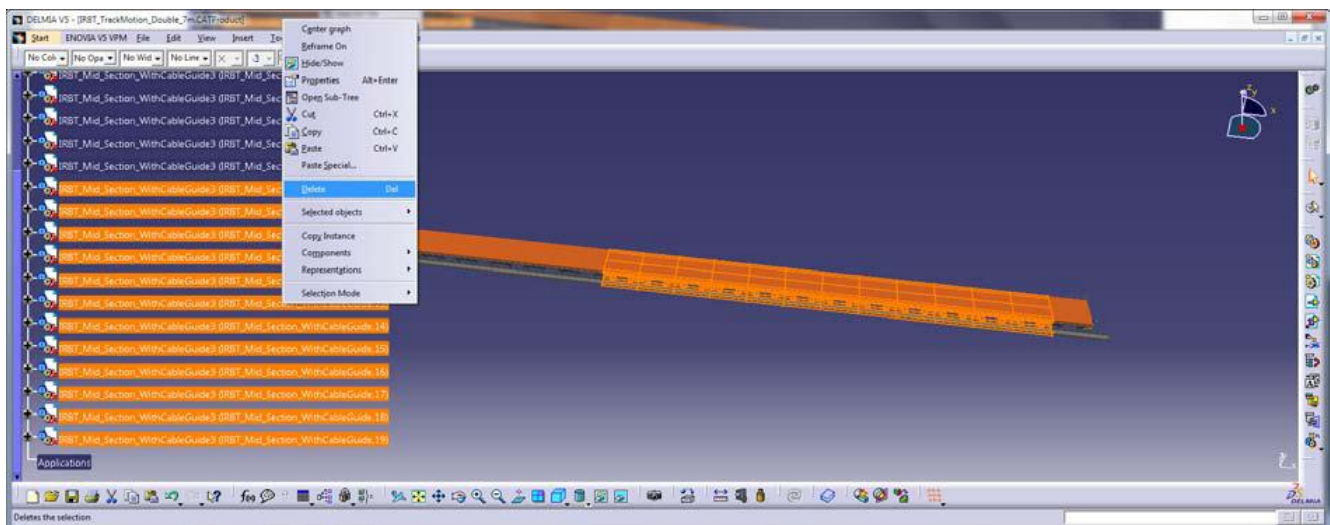
File->Close

Modify Geometry

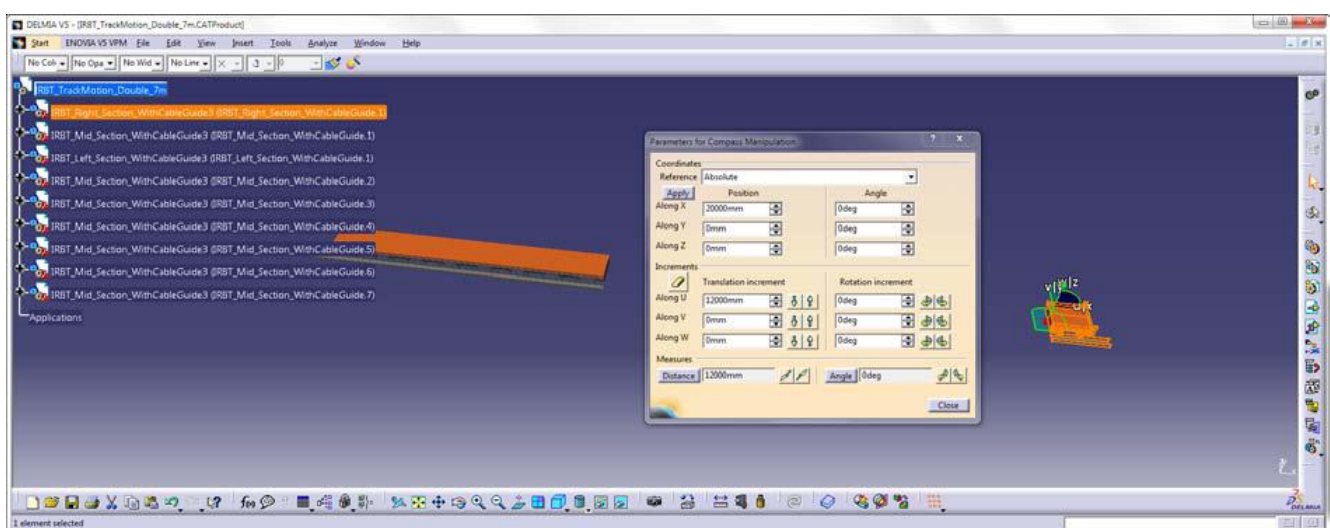
OPEN Assembly IRBT_TrackMotion_Double_7m.CatProduct

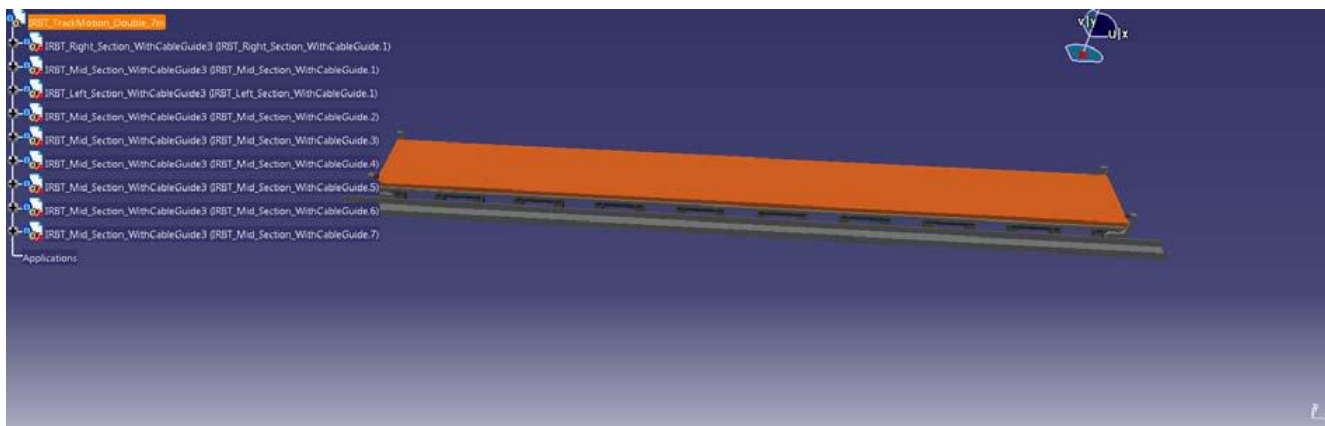


Delete the last 12 Mid sections



Move the right Section -12000mm



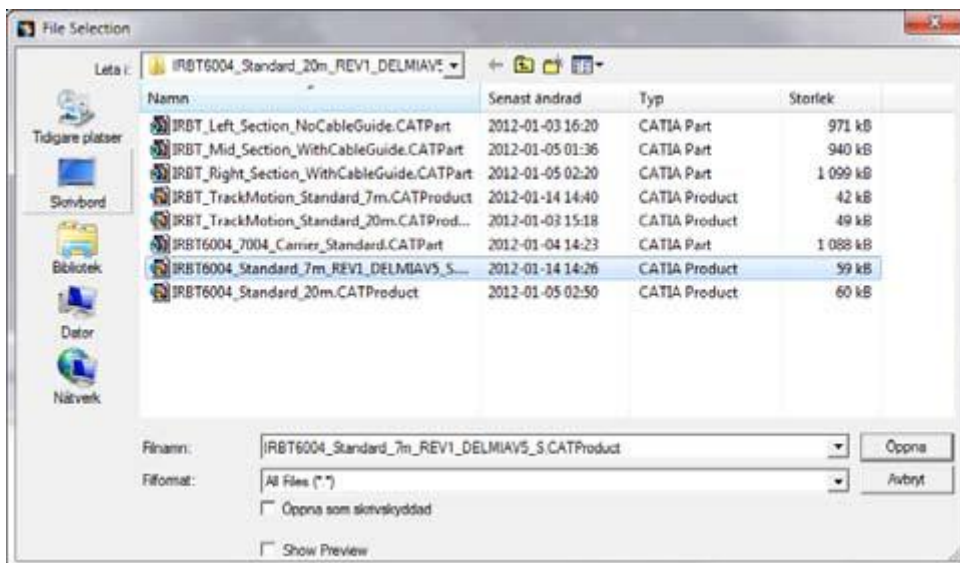


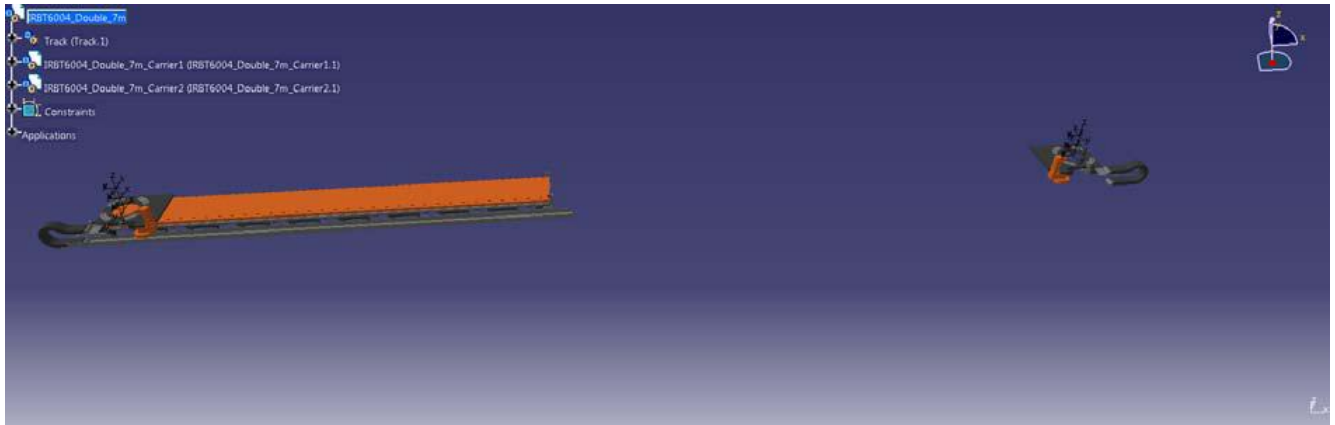
File->Save

File->Close

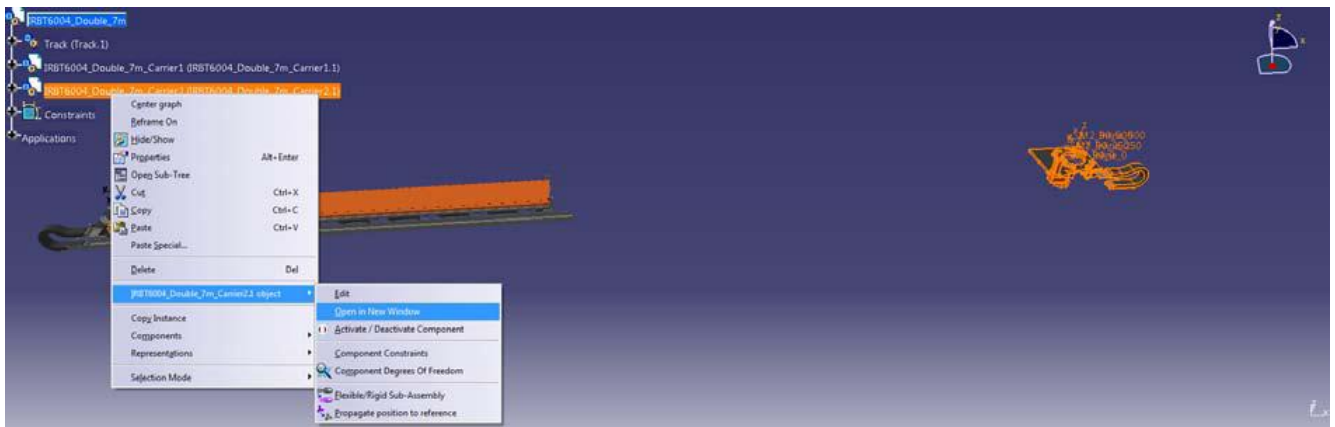
Change Parameters

File->Open IRBT6004_Double_7m_REV1_DELMIAV5_S.CATProduct

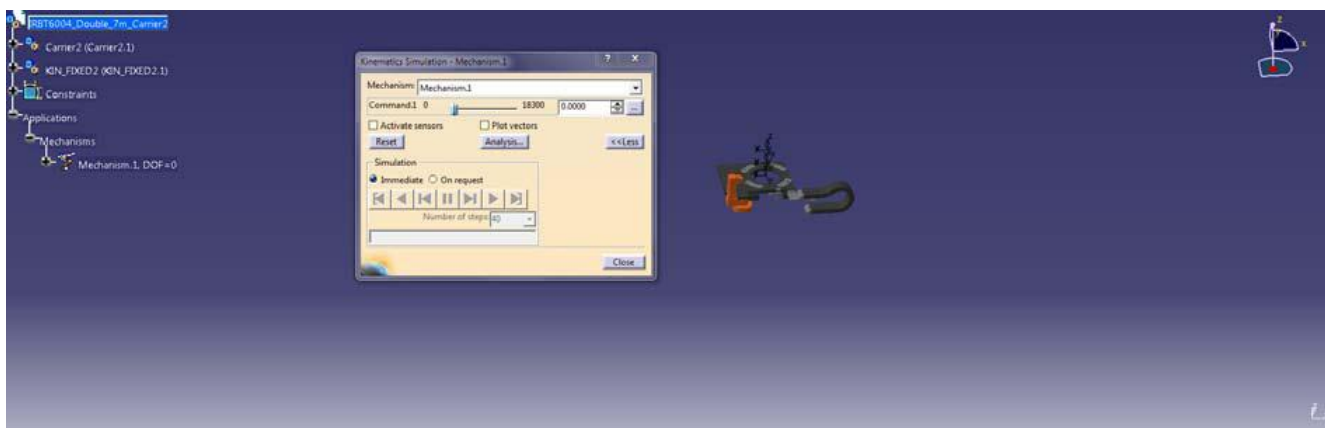




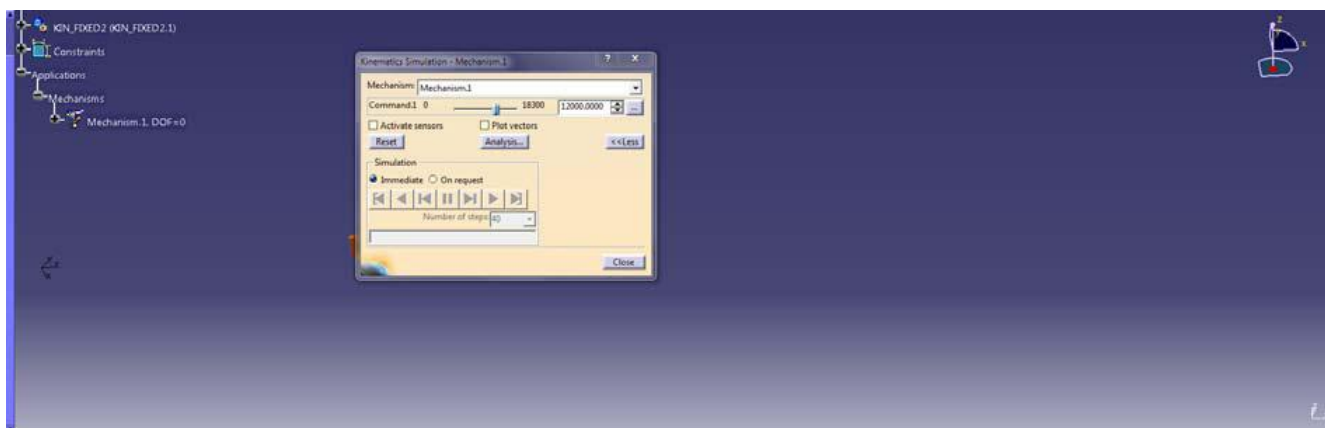
Select IRBT6004_Double_7m_Carrier2 and OPEN In New Window



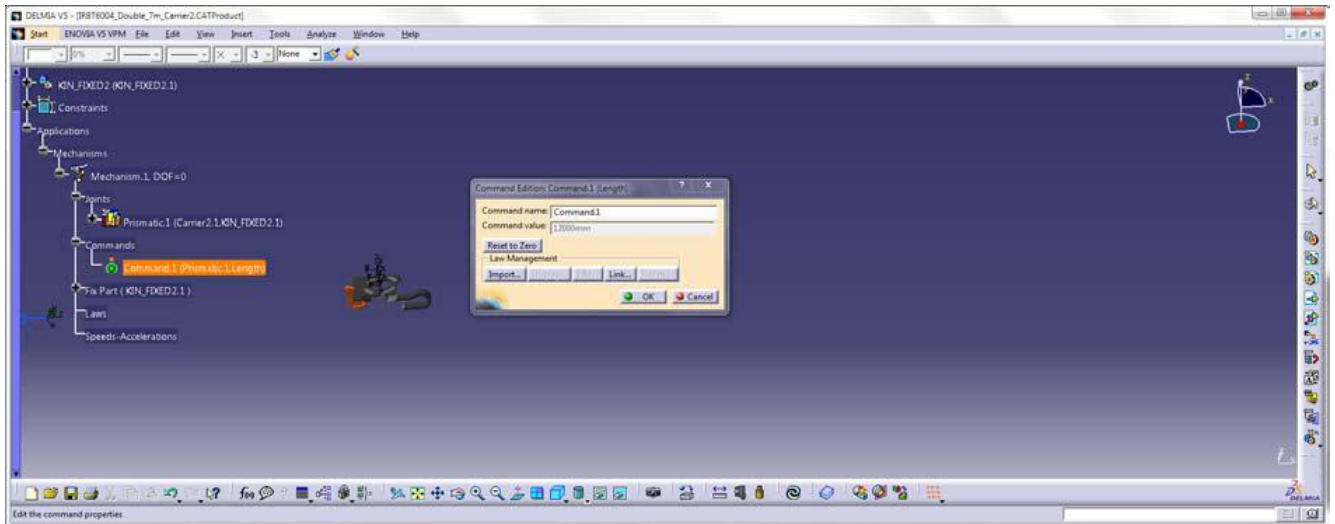
Double click Mechanism.1



Change Position to 12000mm and Close



Double Click Command.1 and Reset to Zero

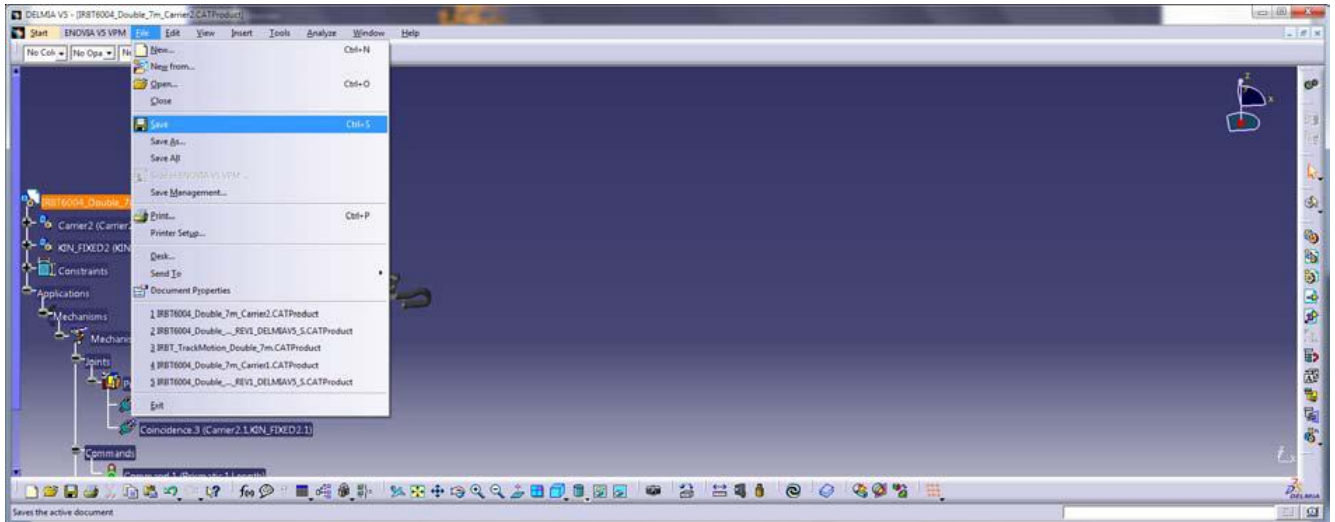


Double Click Prismatic.1 and reduce Upper Limit by 12m to 6.3m



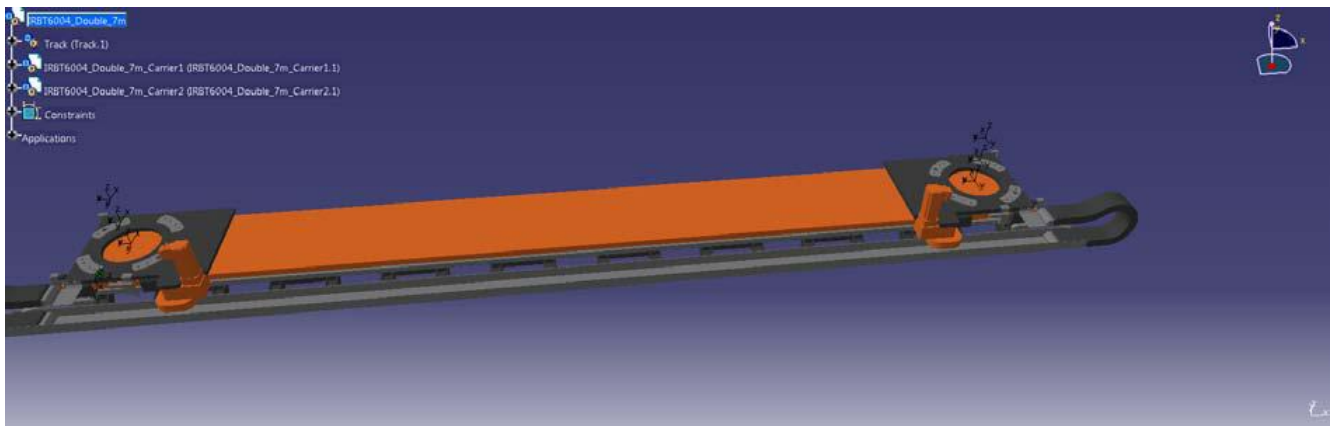
Click OK

File->Save

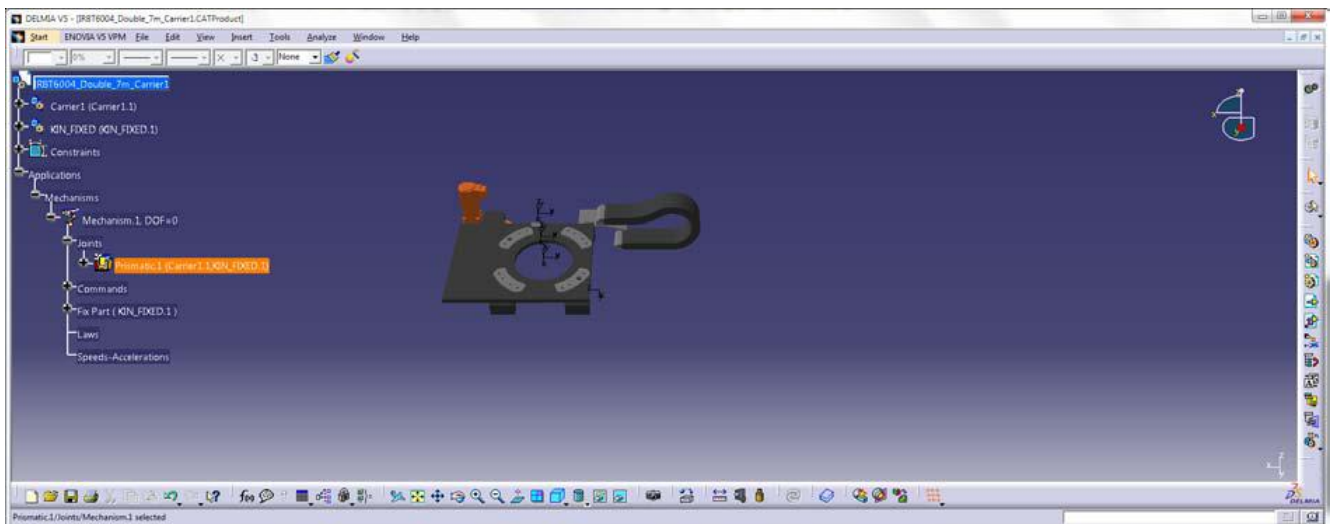
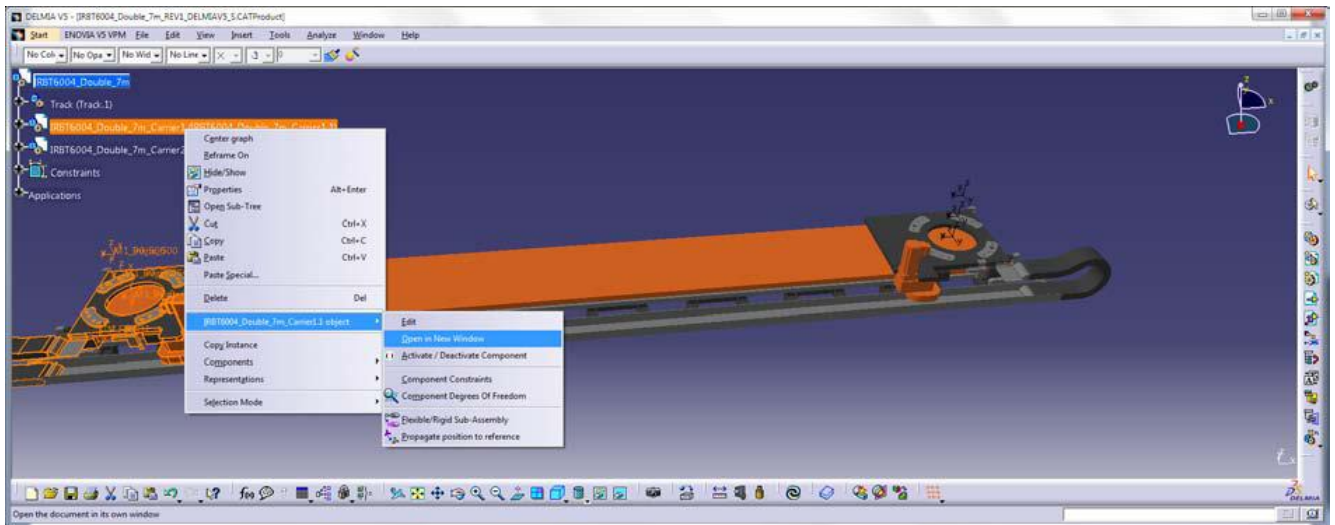


Close window

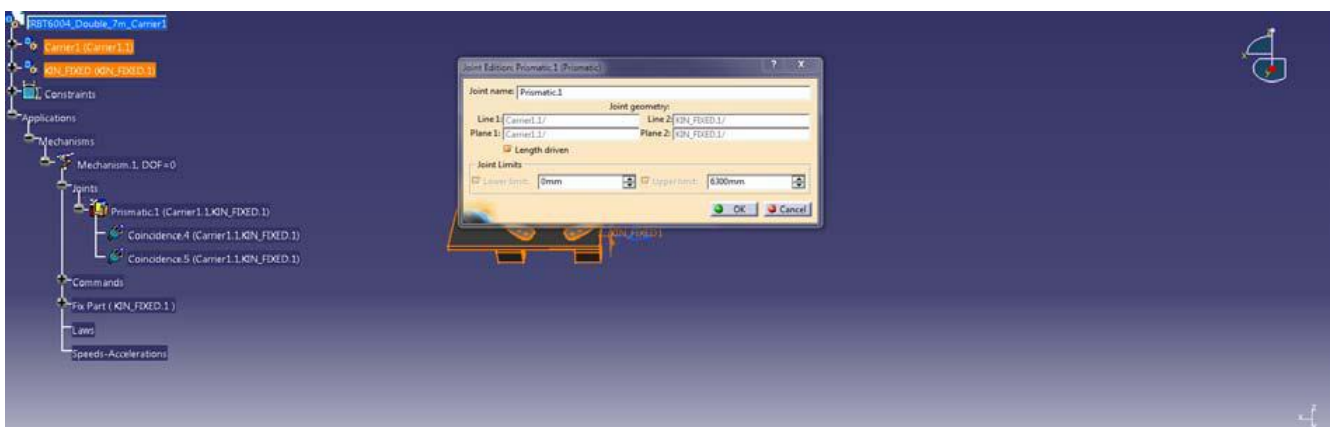
Go back to IRBT6004_Double_7m



Select IRBT6004_Double_7m_Carrier1 and OPEN In New Window



Double Click Prismatic.1 and reduce Upper Limit by 12m to 6.3m



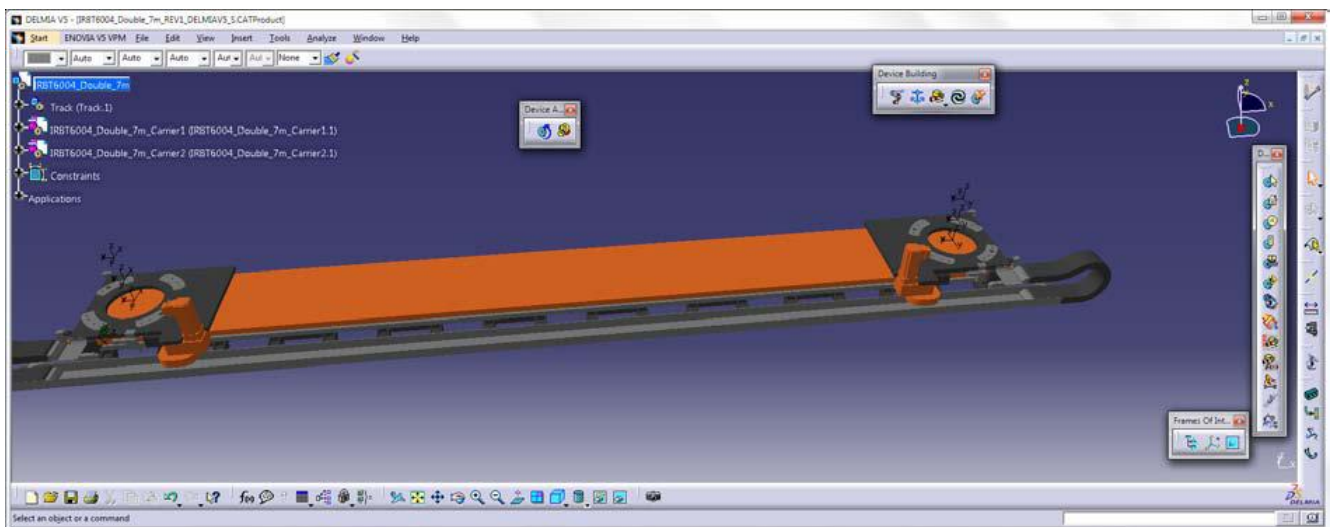
Click OK

File->Save and Close Window

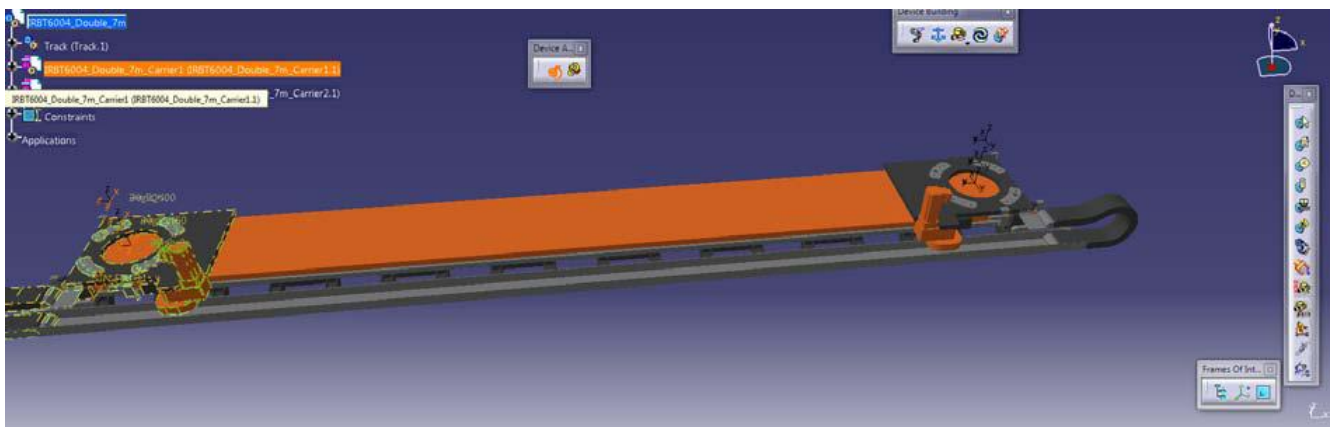
Test the Kinematic

Select Work Bench, Device Building

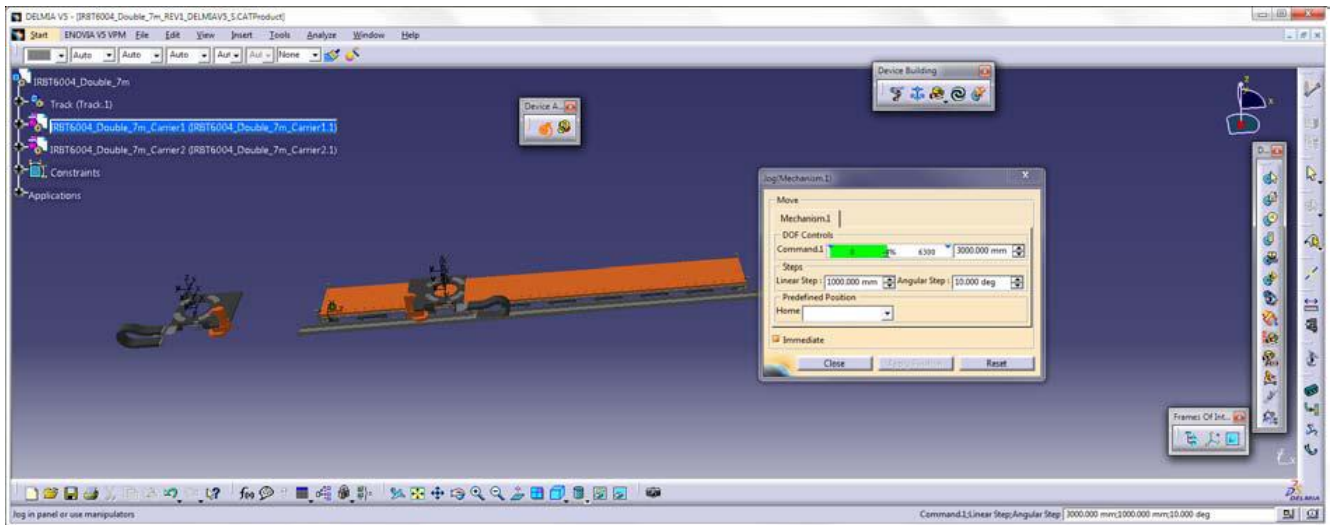
Select Command Jog Device 



Select Carrier1

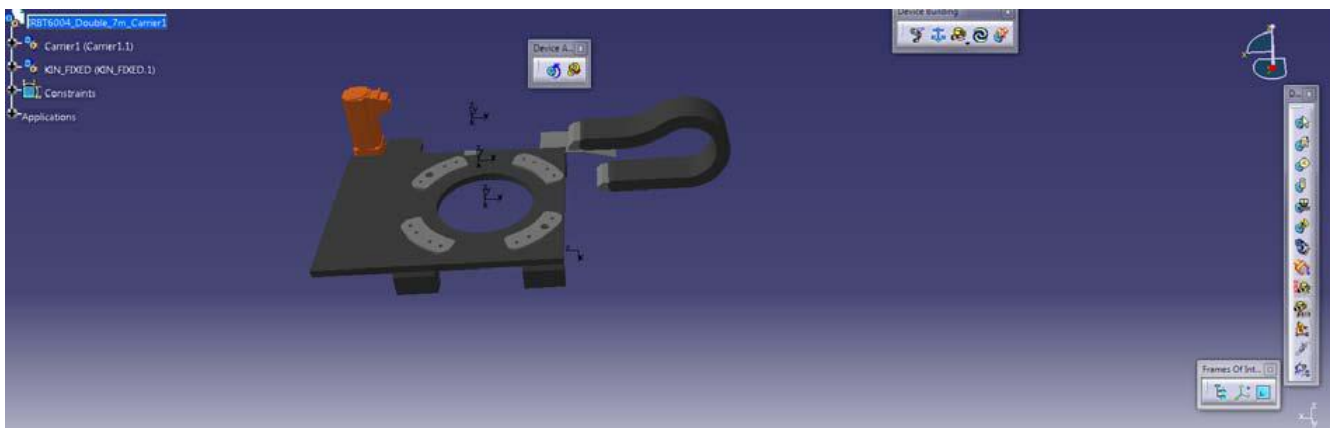


Jog and see if it works

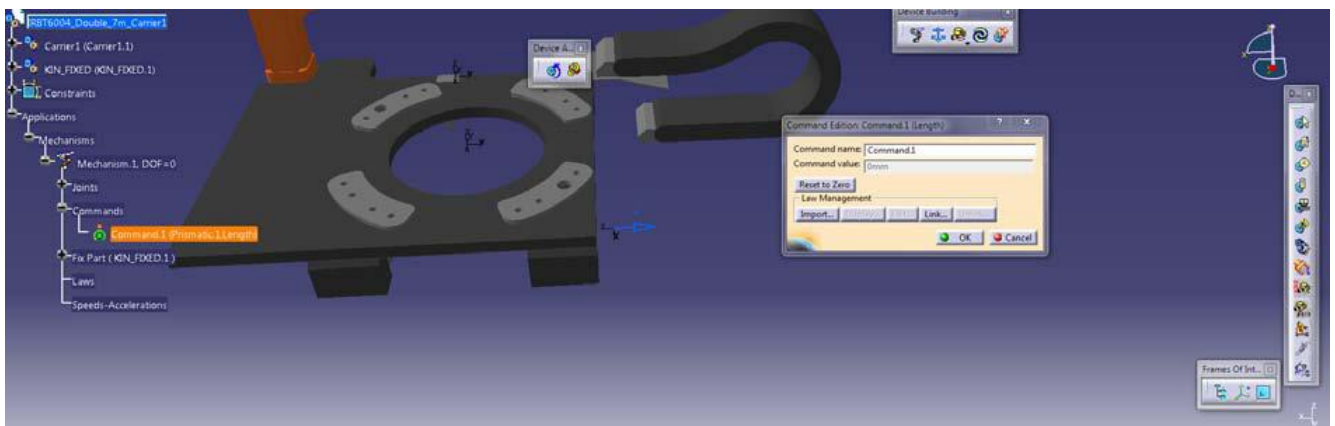


It's going in wrong direction !

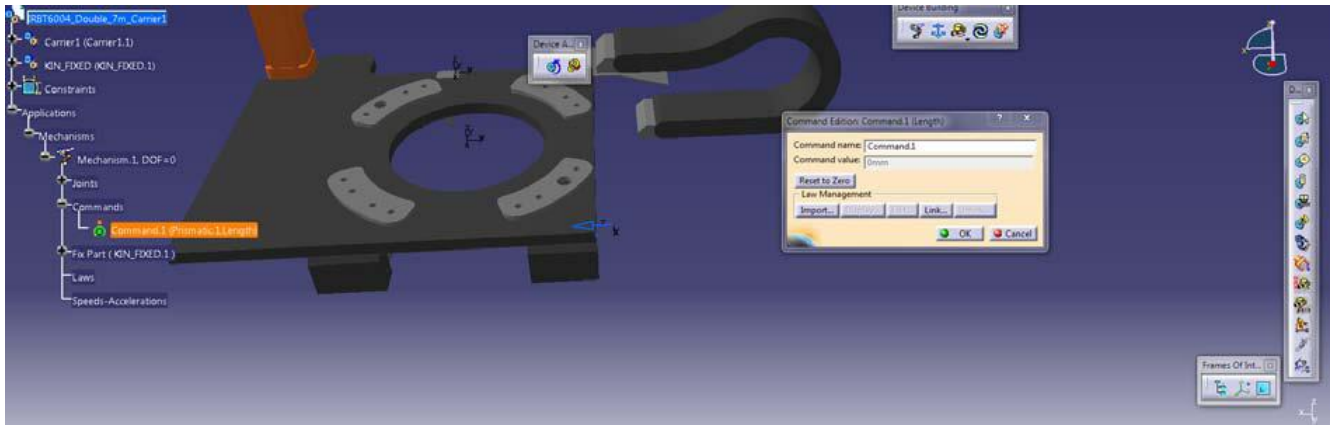
Fix direction, Open Carrier1 in New Window



Double click on Command.1

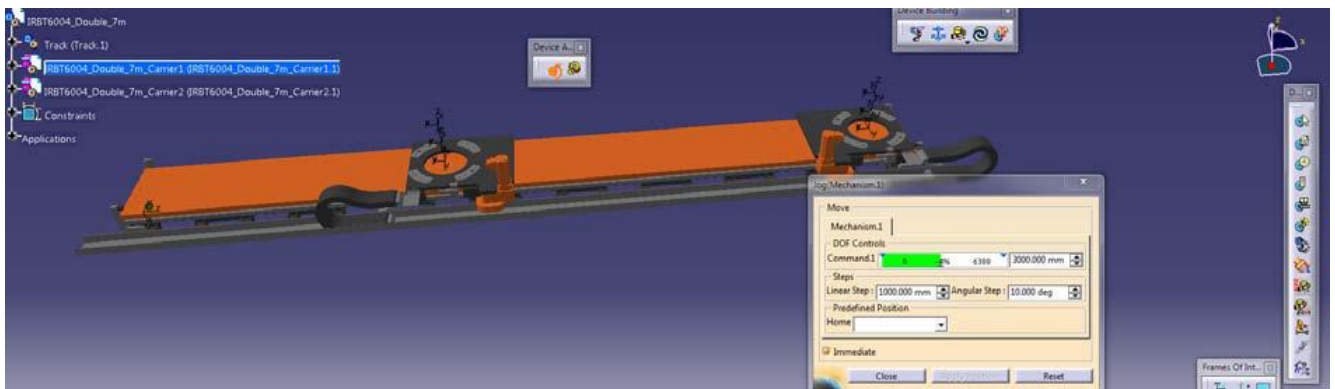


Click on the blue arrow



Click OK and save

Close Window and go back and test again.



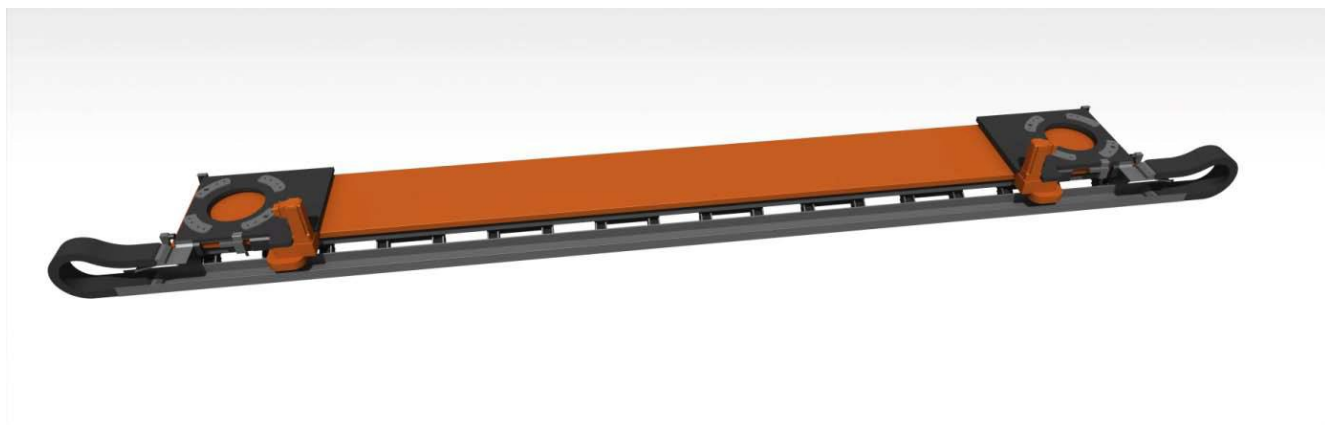
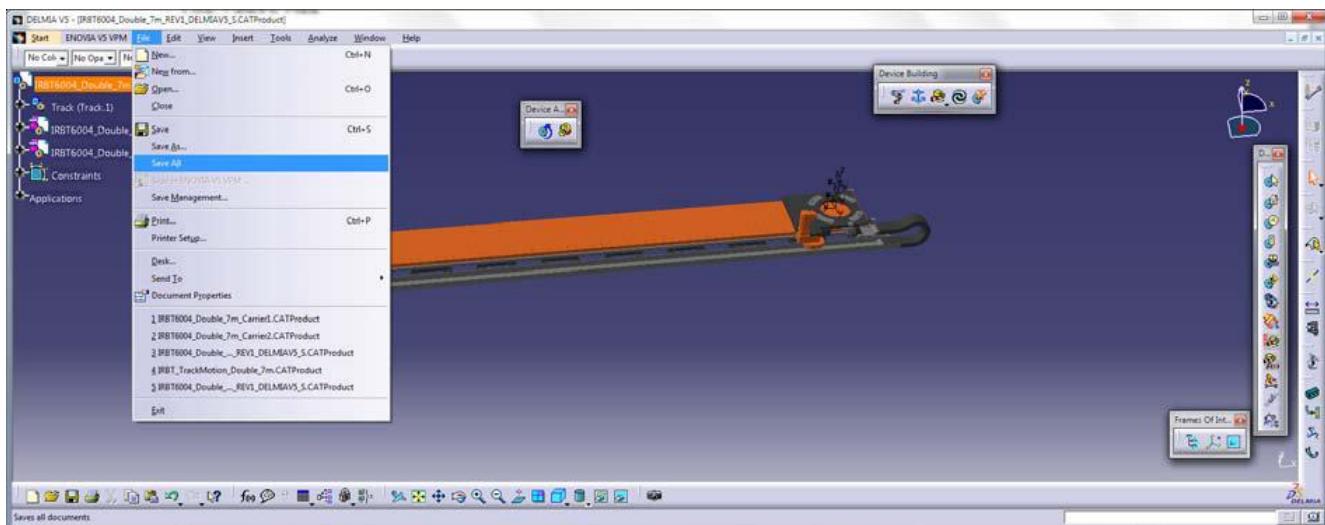
Now It works

Set the joint values to zero.

Do the same test for carrier 2

Double click Top node

File->Save ALL



Finished.

How to use components in delmia

Exempel: IRB4400 on a IRBT4004 with a 250 mm raiser. placement should be Inline

- Create root product
- Insert Track, Robot and raiser
- Place and Attach components
- Use Coordinate systems defined in

MOUNTINGFRAMES

