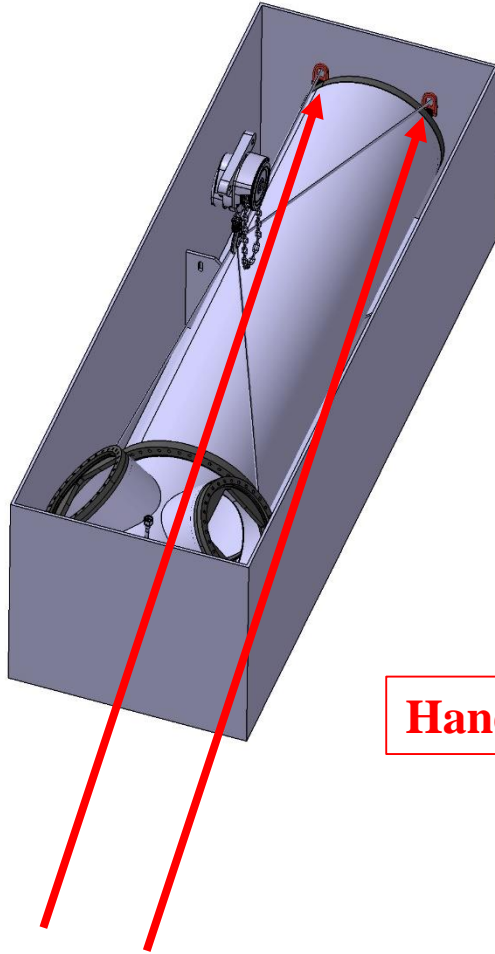


Chimneys Status

- Design of Cold Flange PCB
- Request for quotations for reviews
- Preparation of review documents
- Installation tools discussed with I&I
- Update of Thermal Simulations

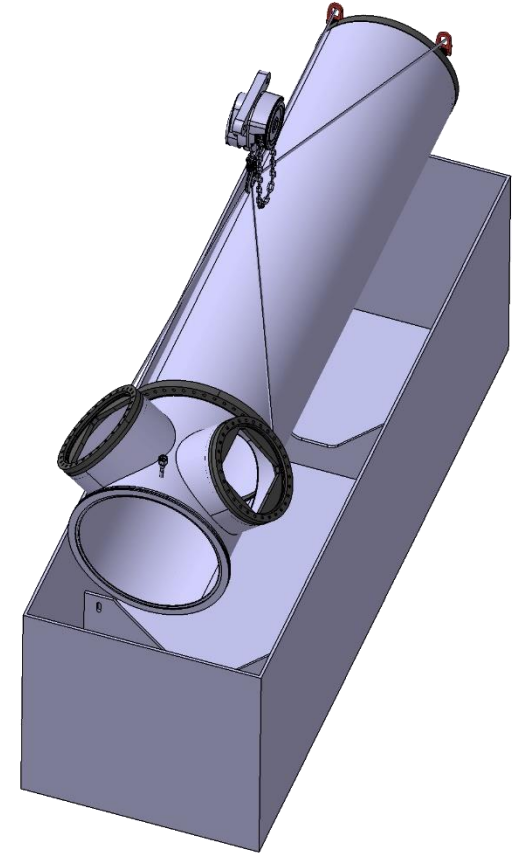
Chimney Handling on site



Handling points MUST BE on FLANGES

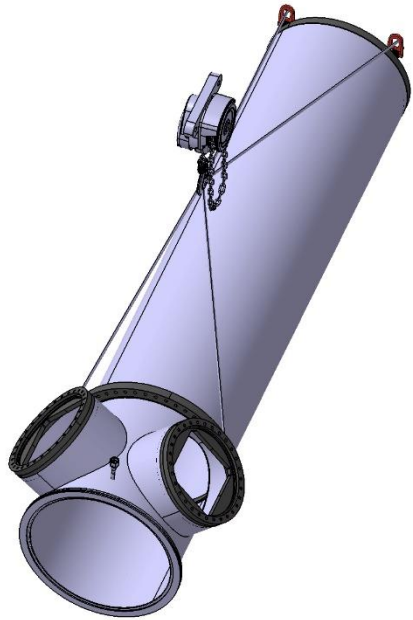
Step 1:

- Screw 4 eyebolts in the flanges
- Connect slings



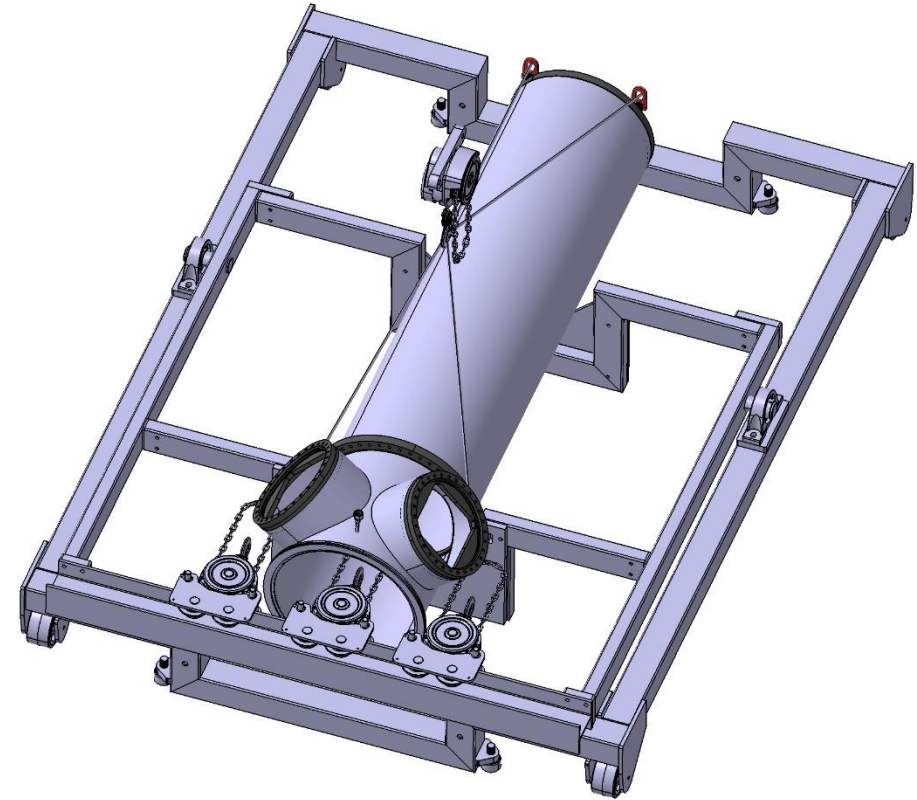
Step 2:

- Out of its box



Step 3:

- Take away from the box

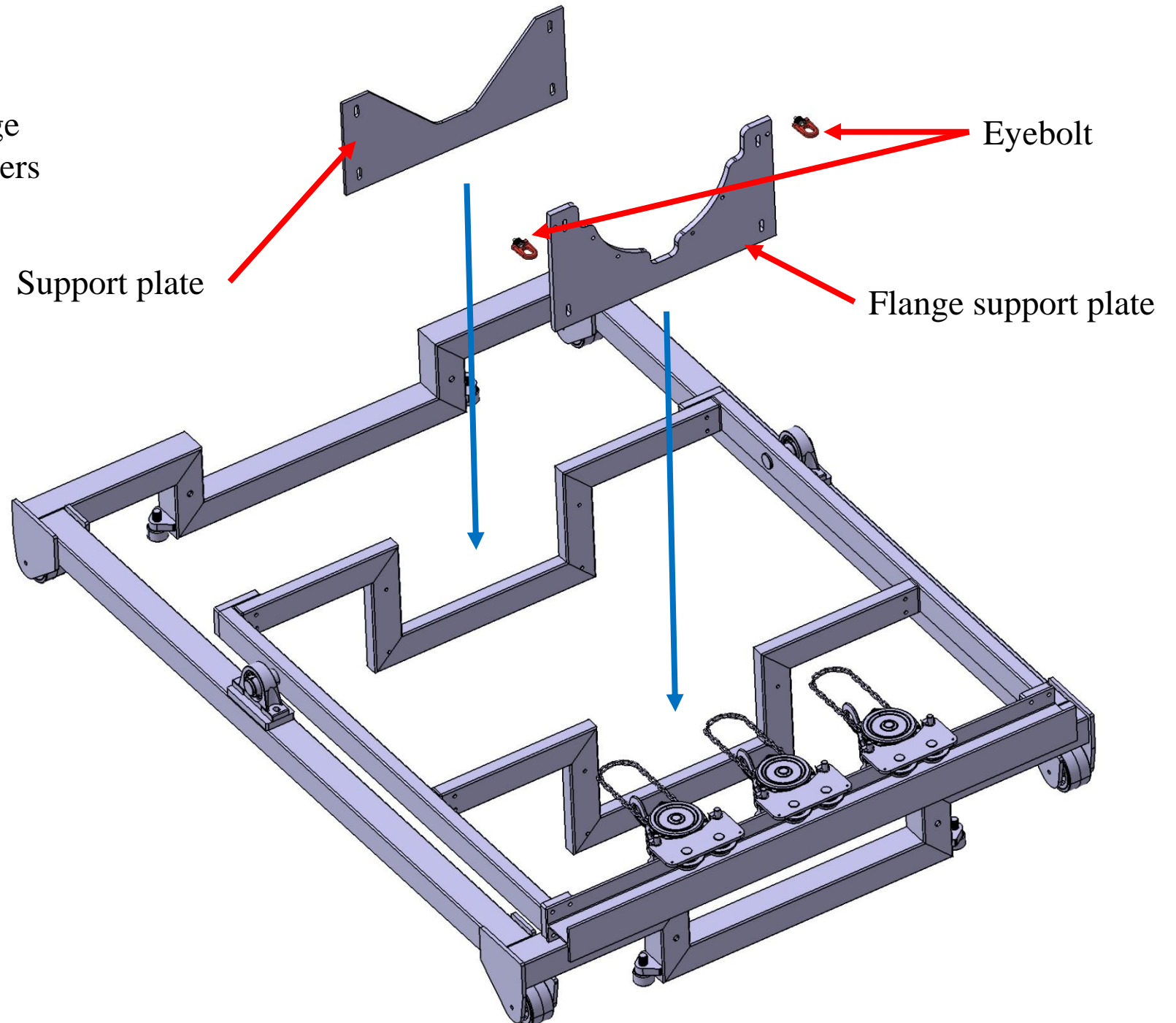


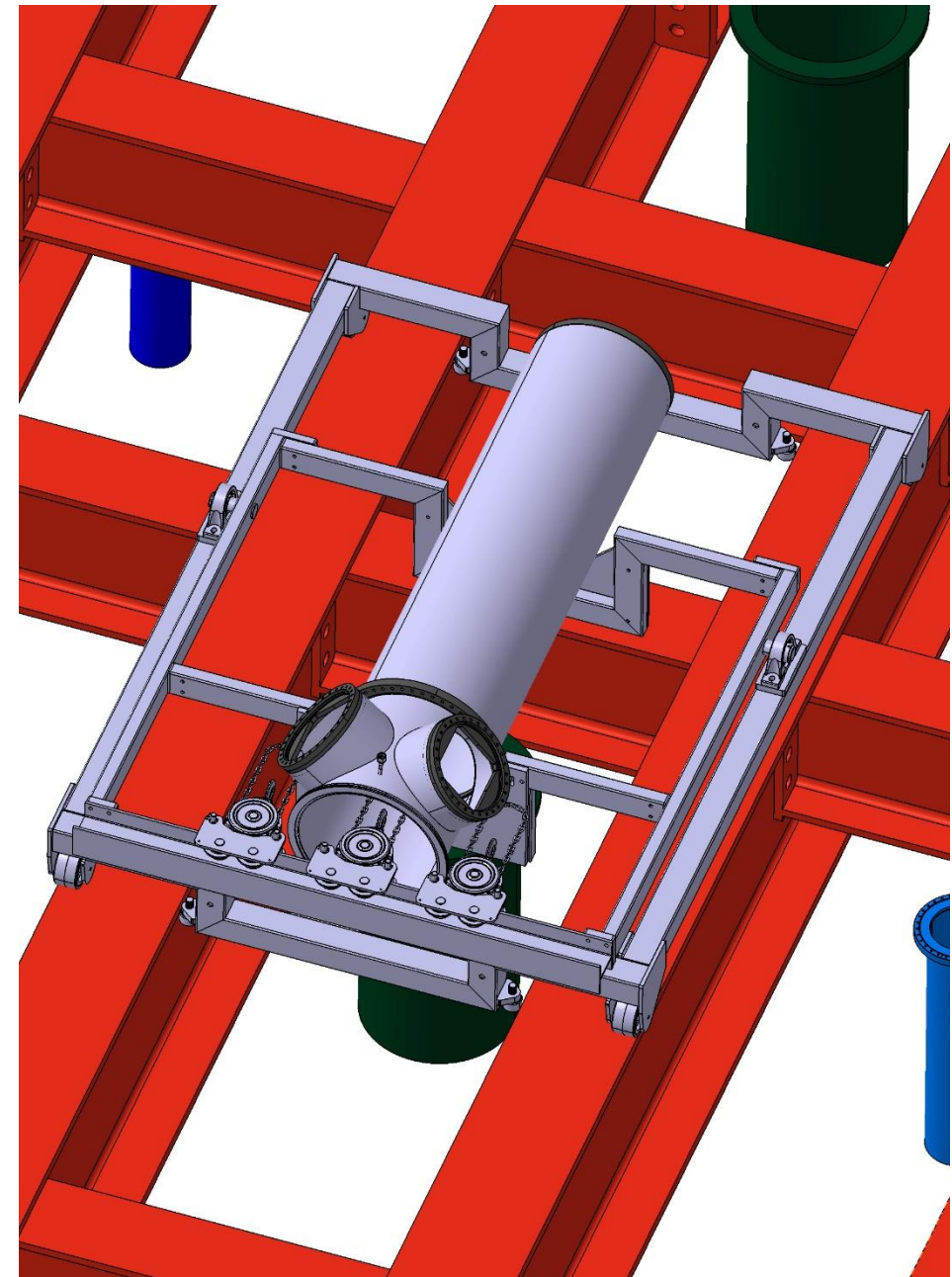
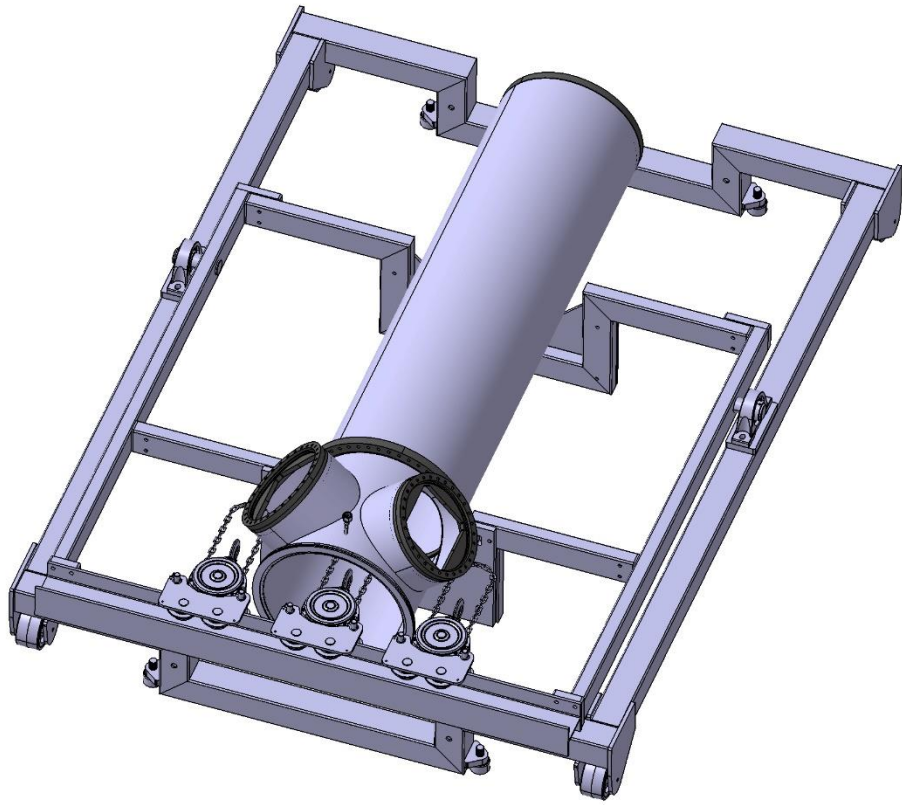
Step 4:

- Installation on the cart

The Cart and toolings

- Support plates screwed on the cart
- One plate to screw the middle flange
- 2 types of plates for the two diameters

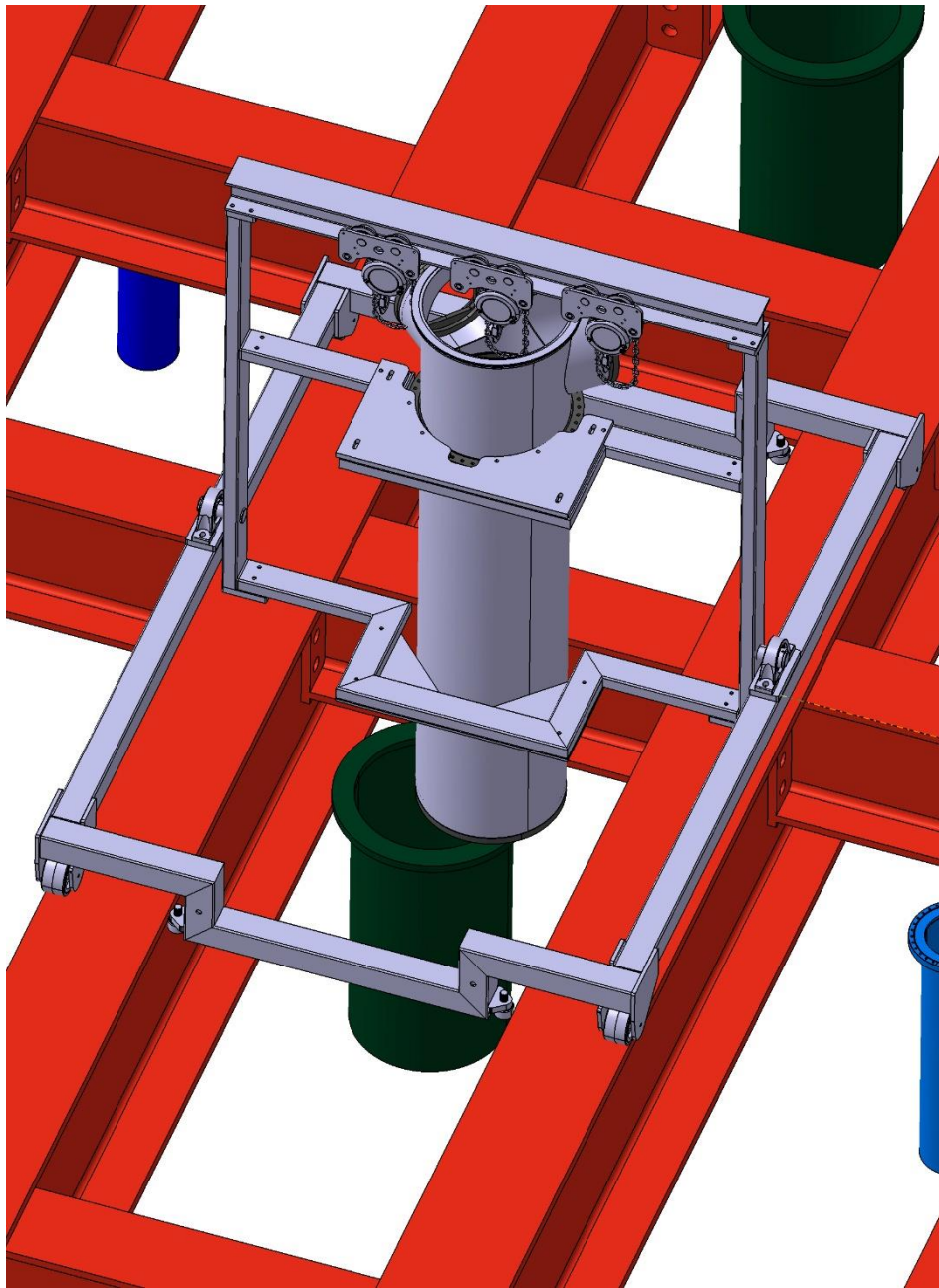




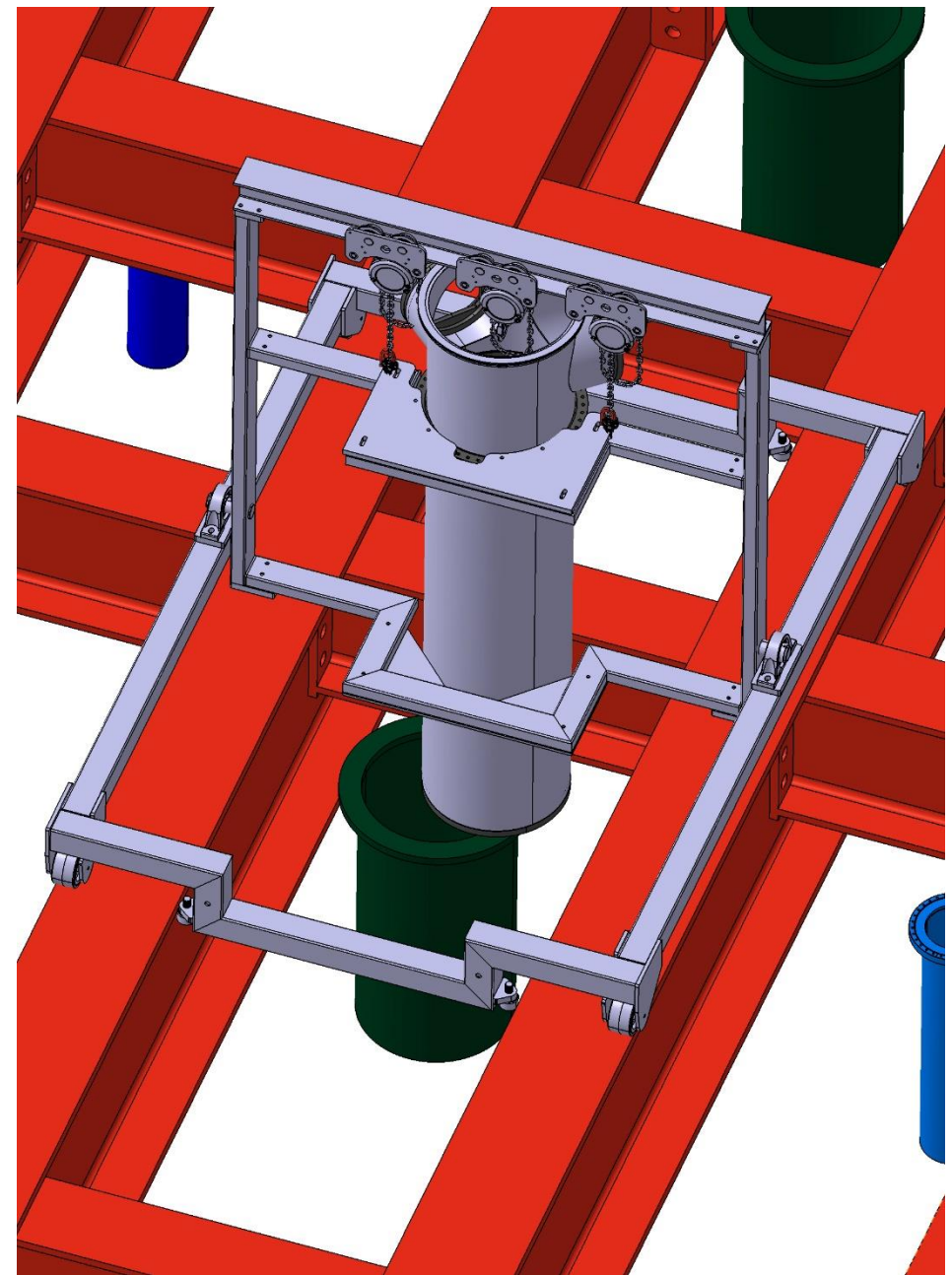
Step 5:

- Screw the flange to the Flange support plate
- Remove eyebolts and slings

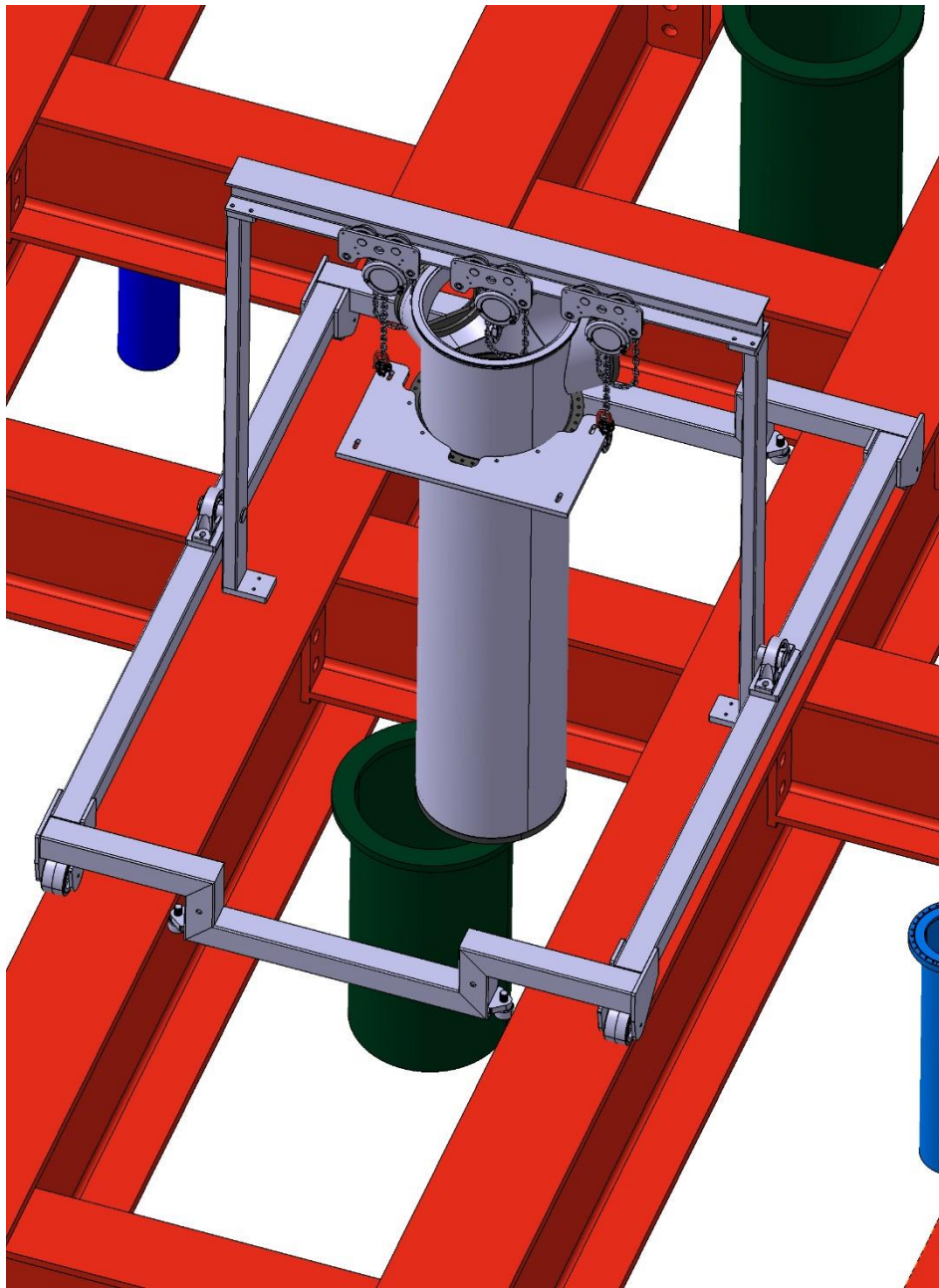
Step 6 : Bring to the right position



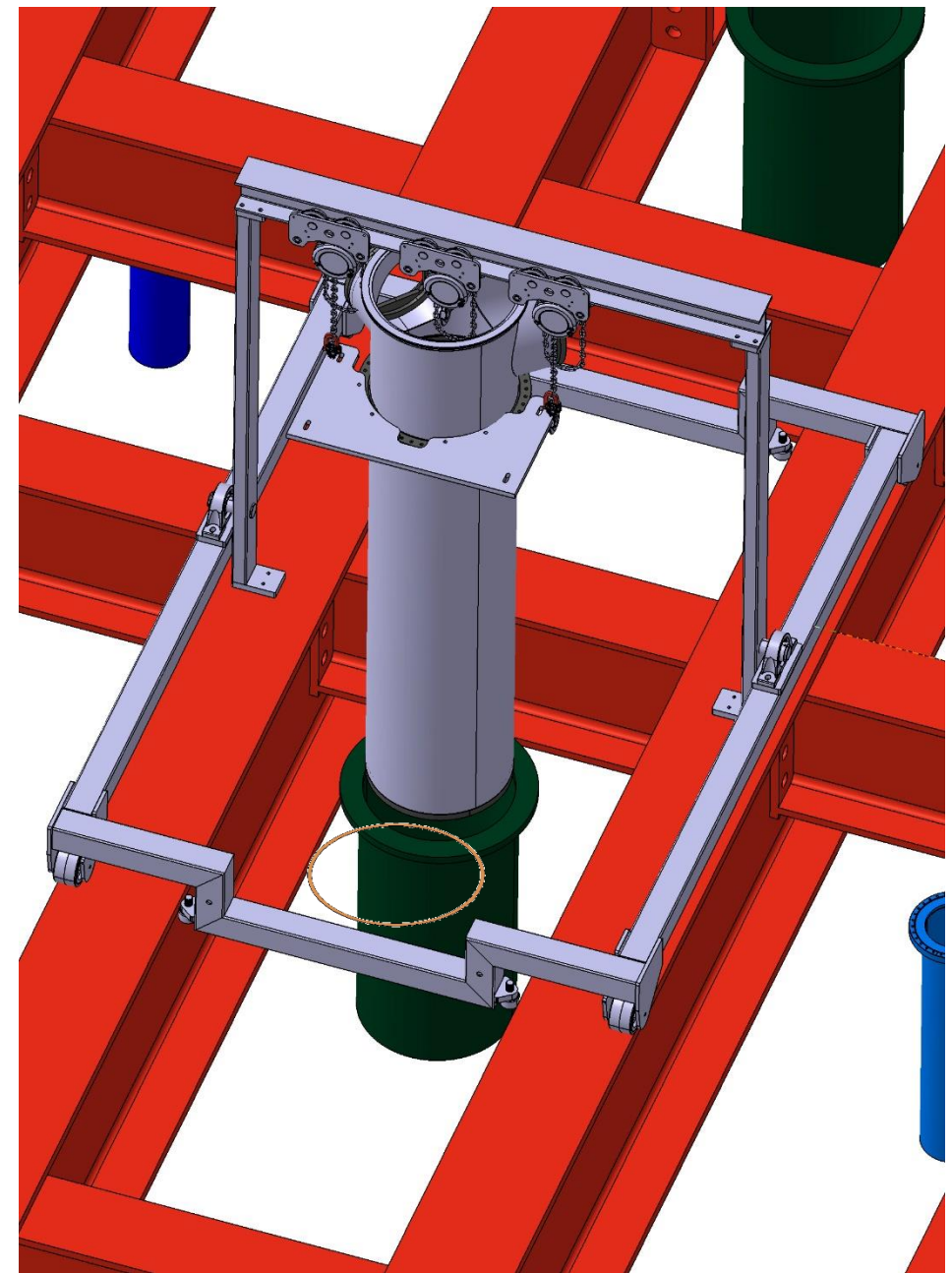
Step 7 : Rotate the cart



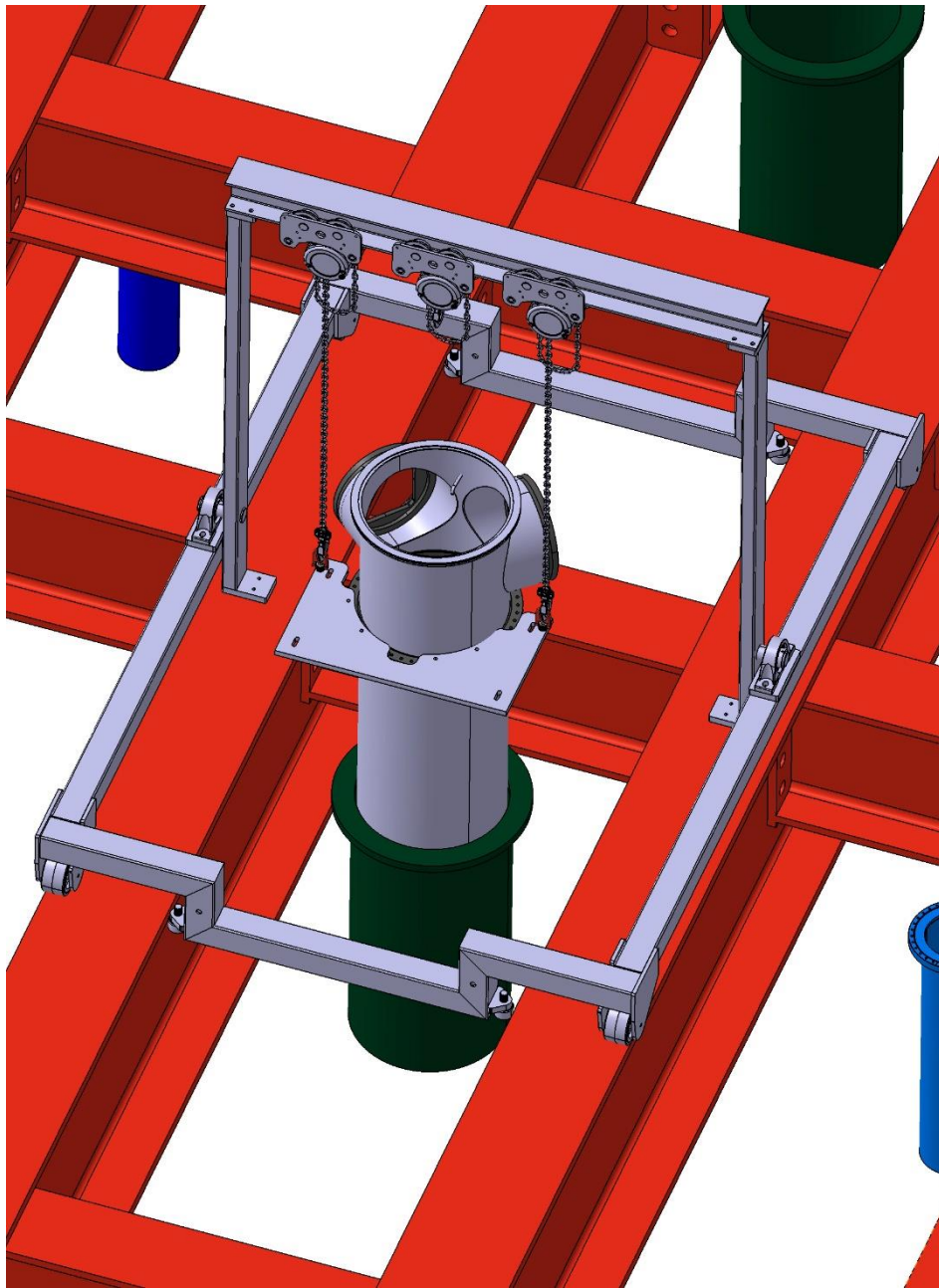
Step 8 : Screw 2 eyebolts in the Flange support plate and connect sides cranes



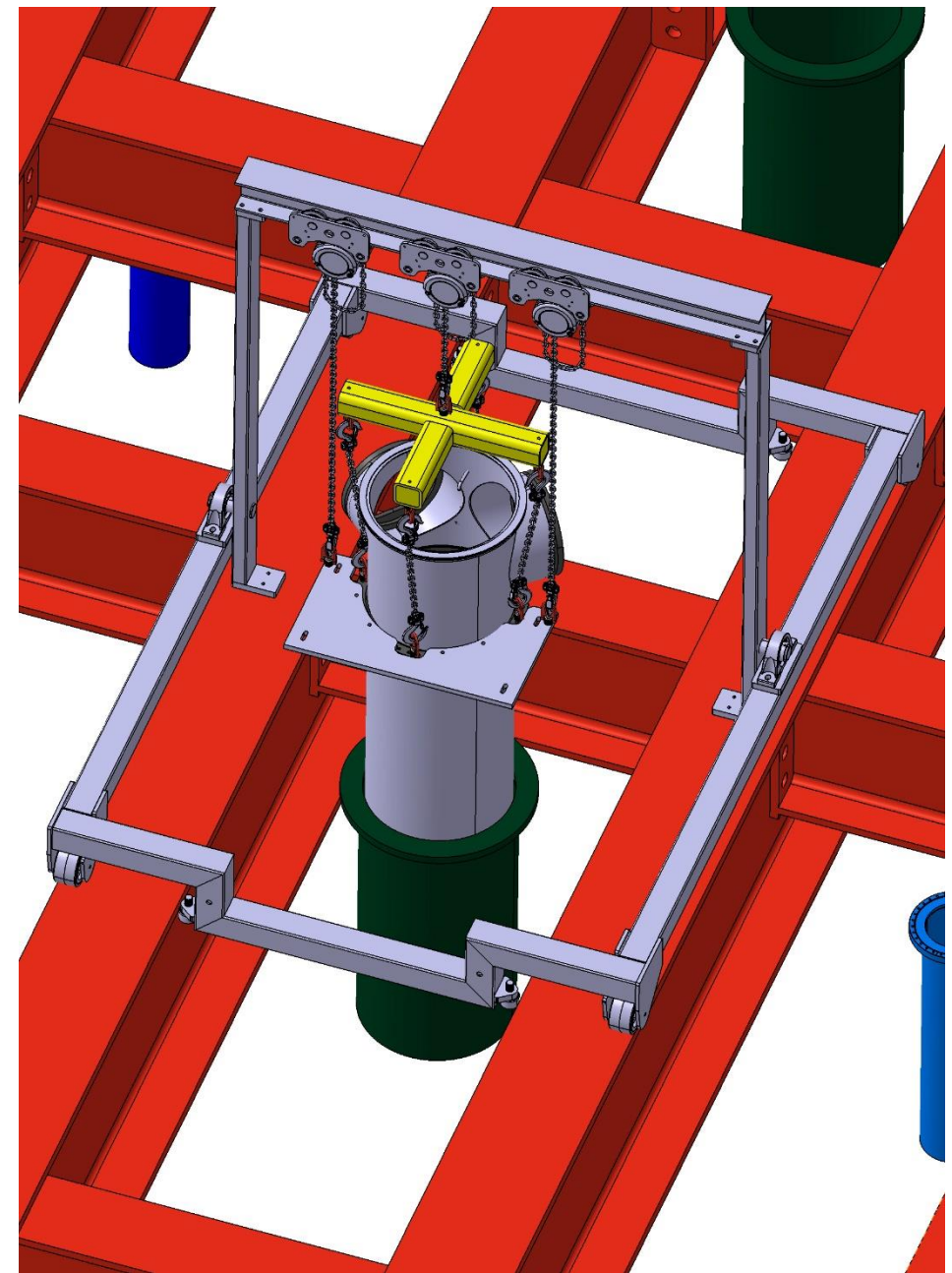
Step 9 : Remove supports keeping the Flange support plate



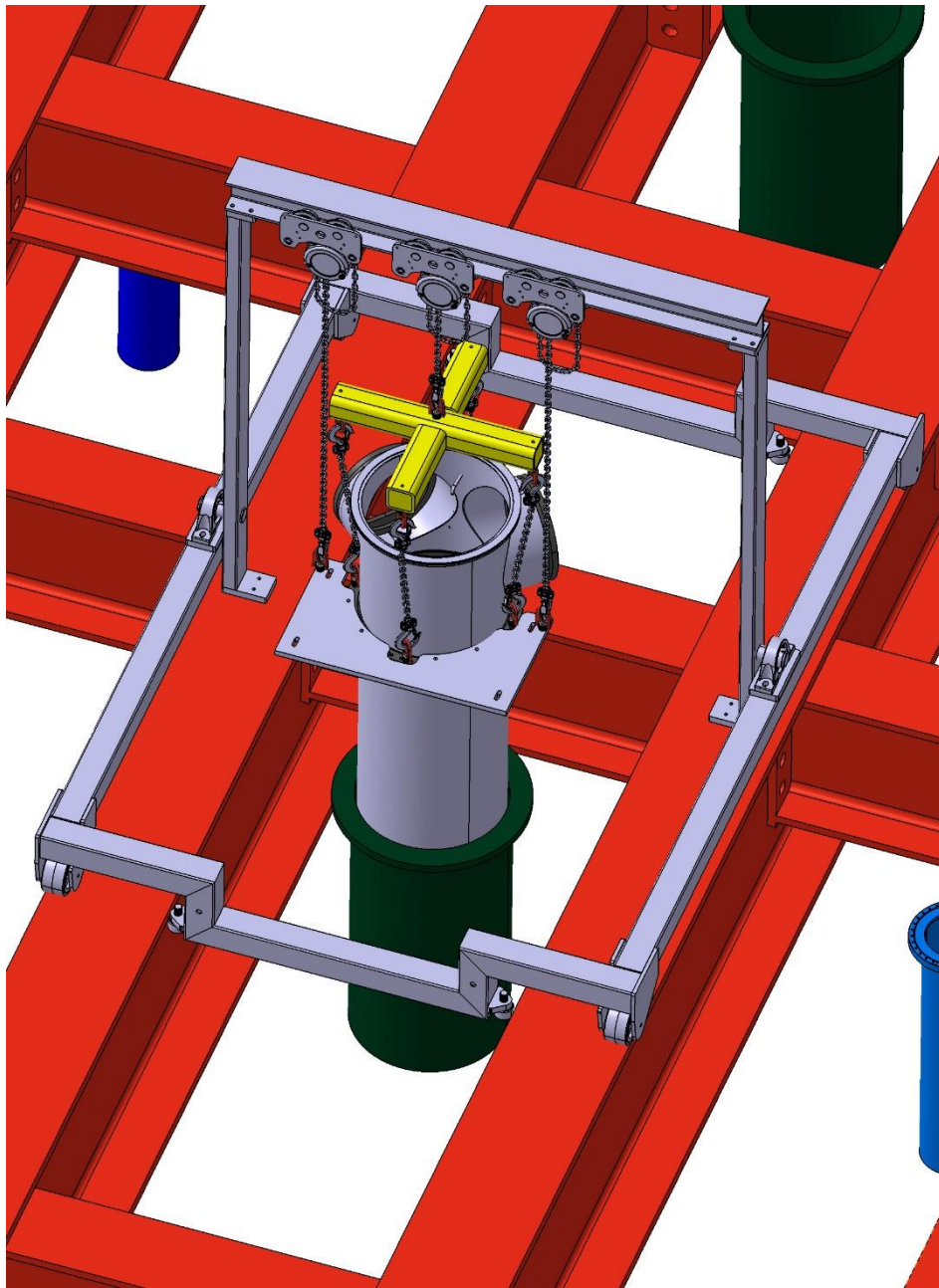
Step 10 : Translation of the chimney and installation of the copper gasket



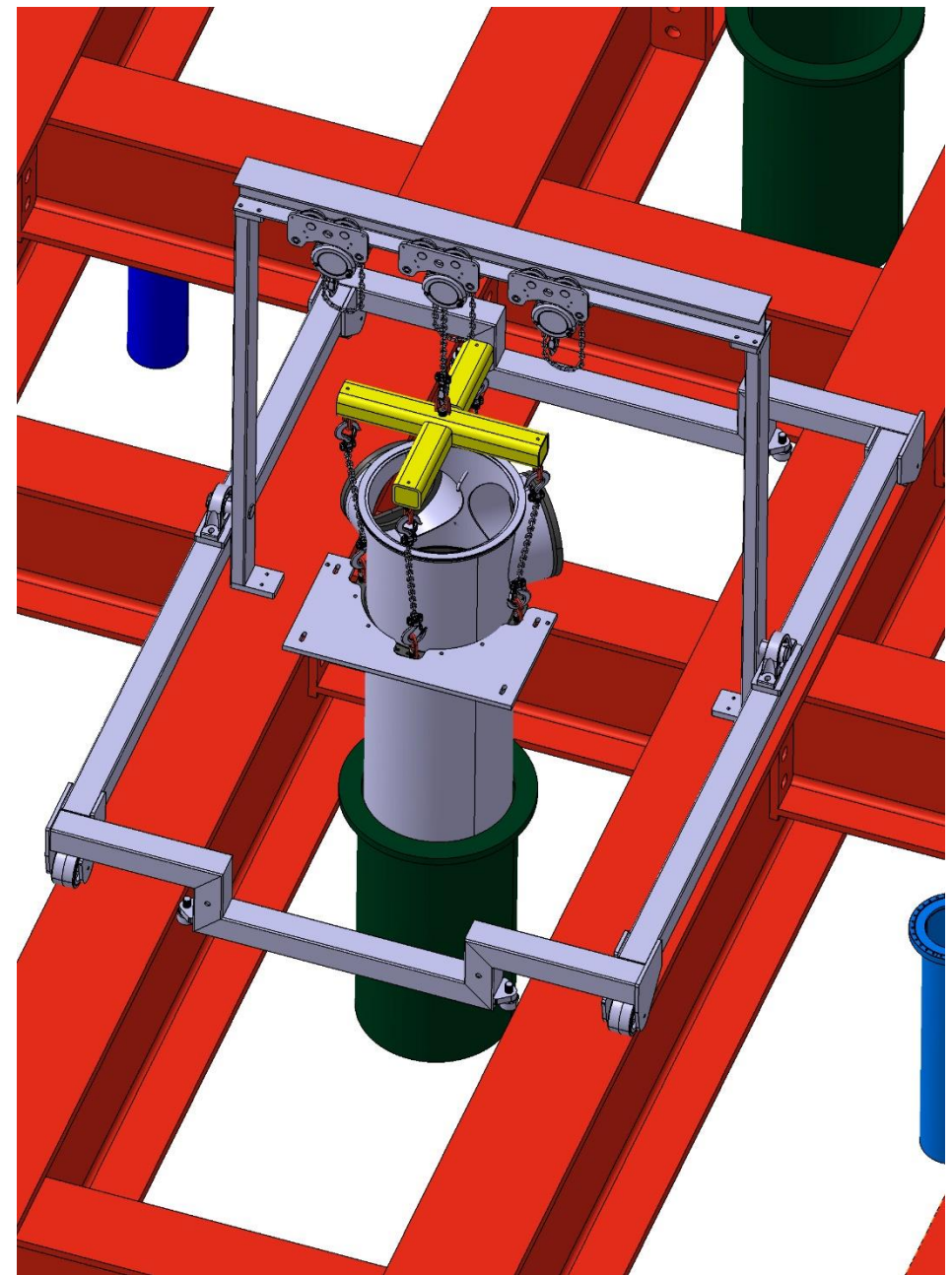
Step 11 : Lower the chimney, put on the penetration



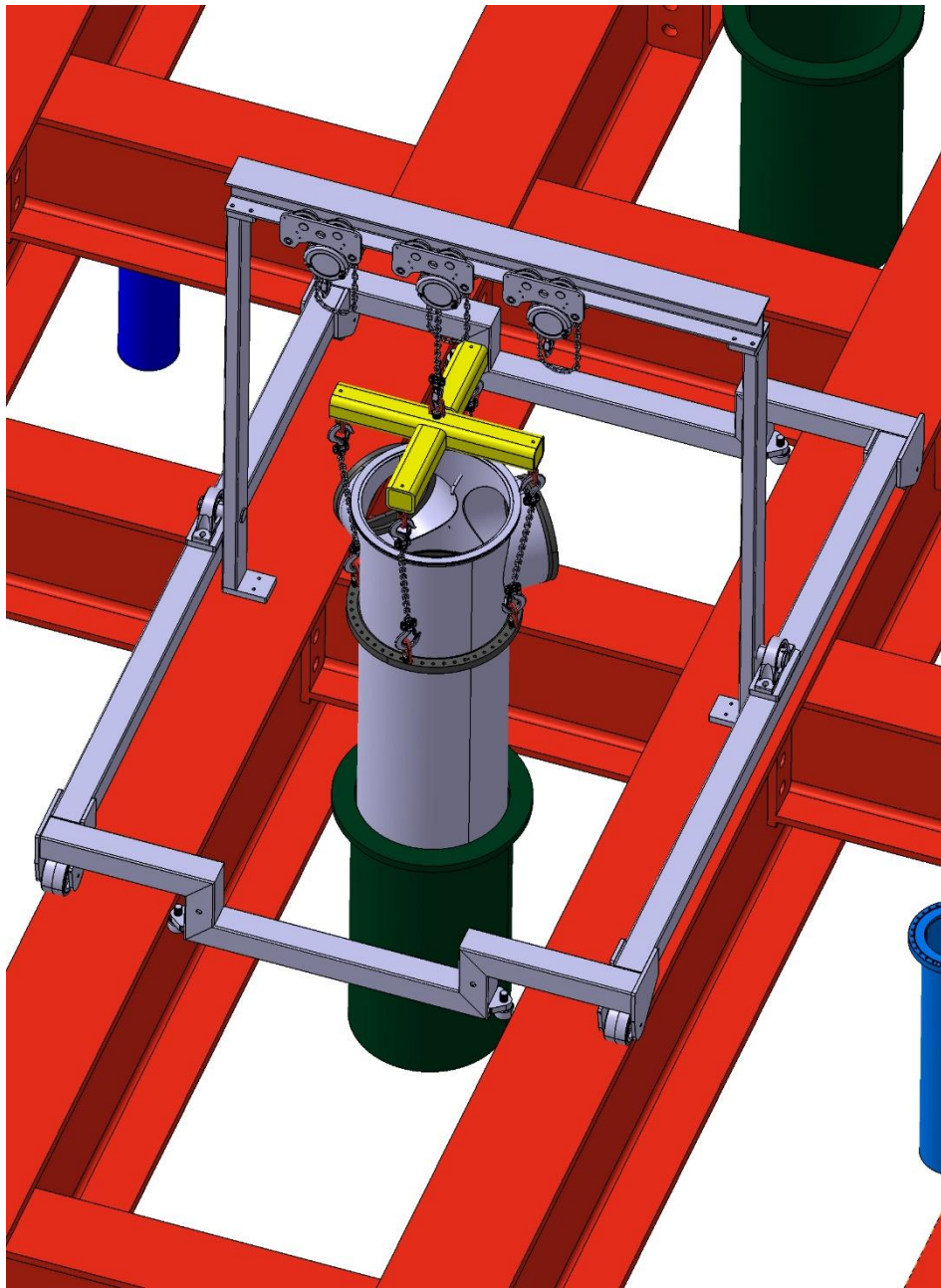
Step 12 : Screw 4 eyebolts in the central flange and connect central crane with hoist and slings



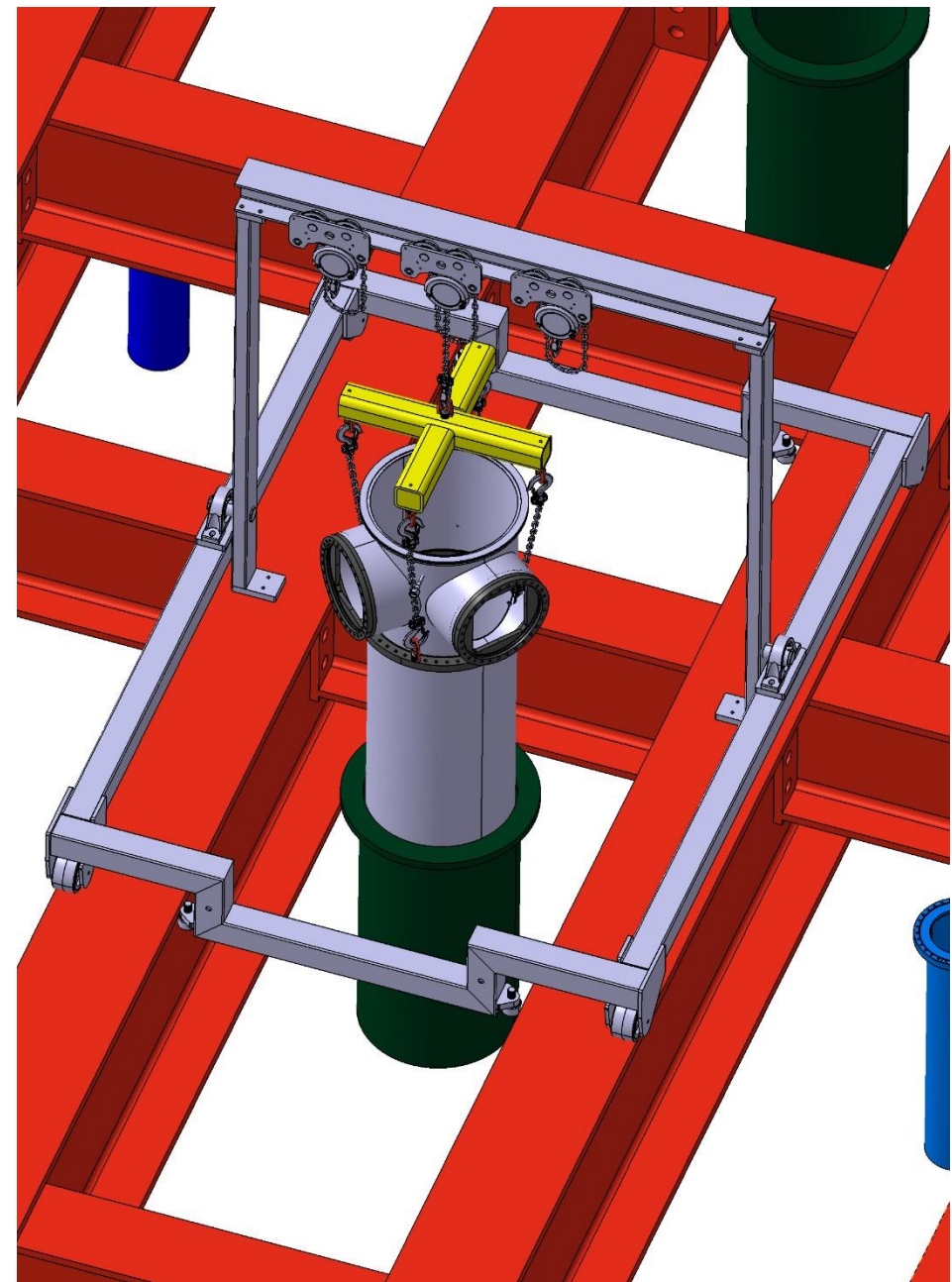
Step 13 : Raise a few centimeters with the central crane to release the 2 sides cranes



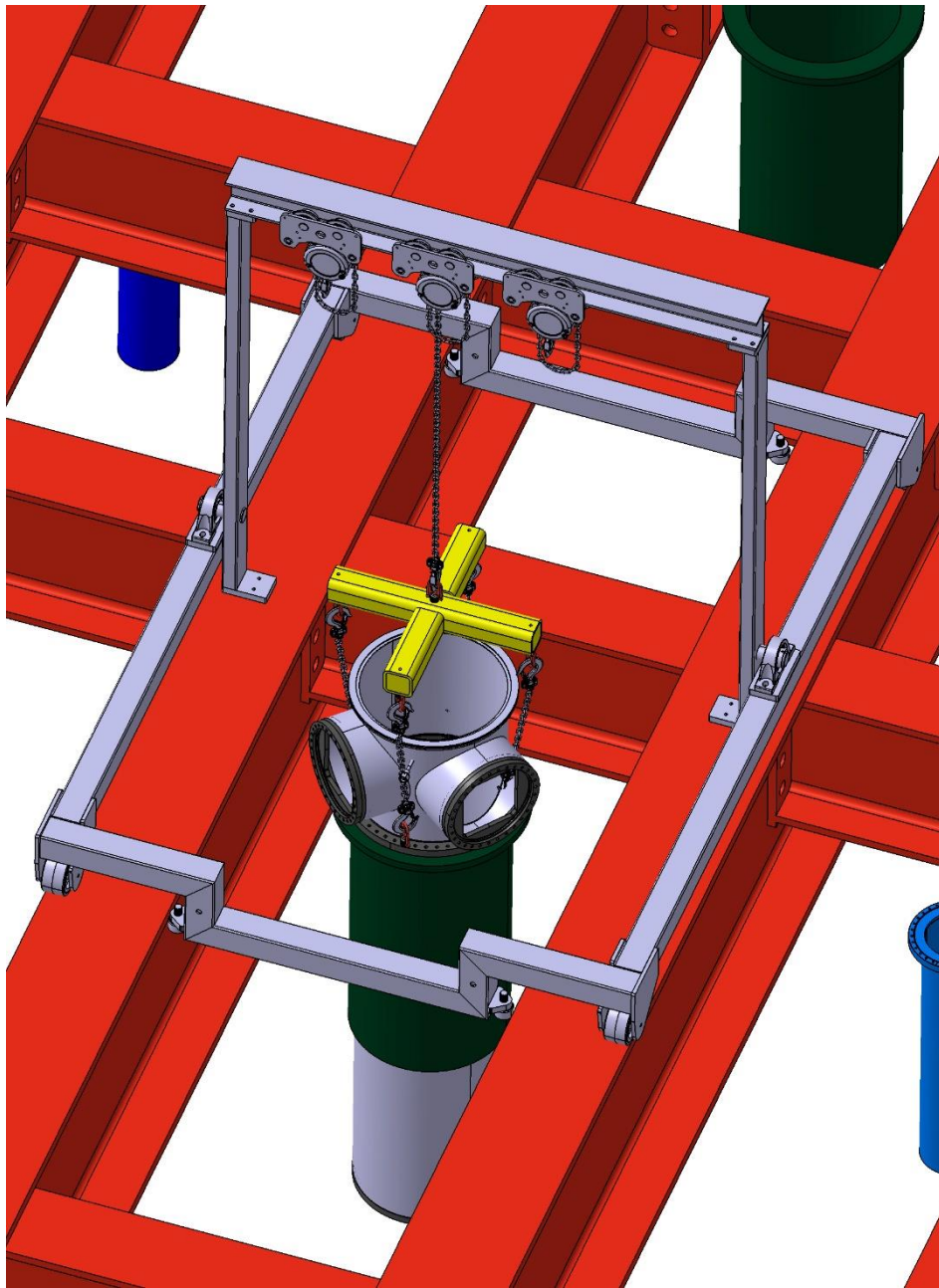
Step 14 : Remove the 2 sides cranes and eyebolts



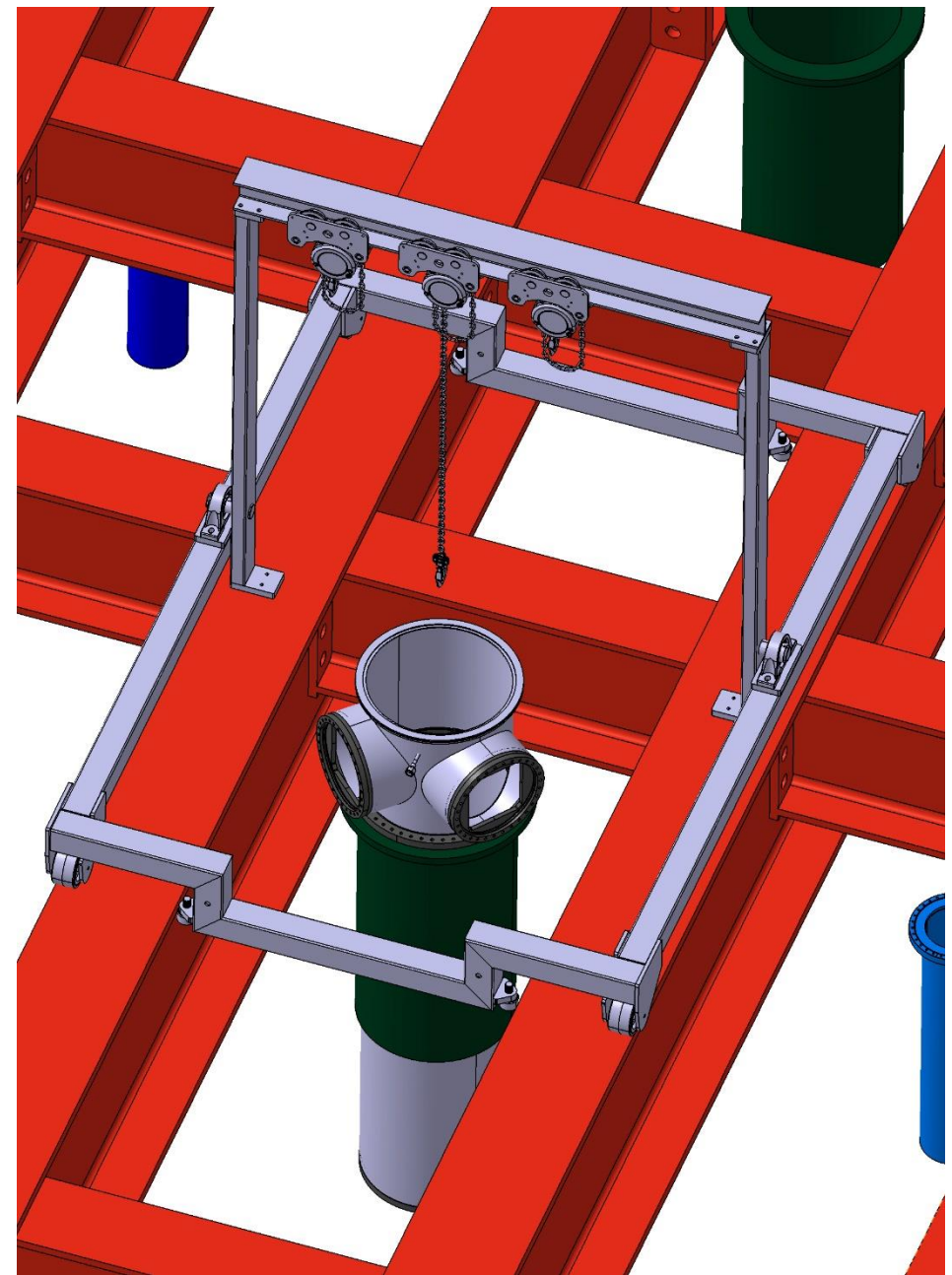
Step 15 : Remove Flange support plate



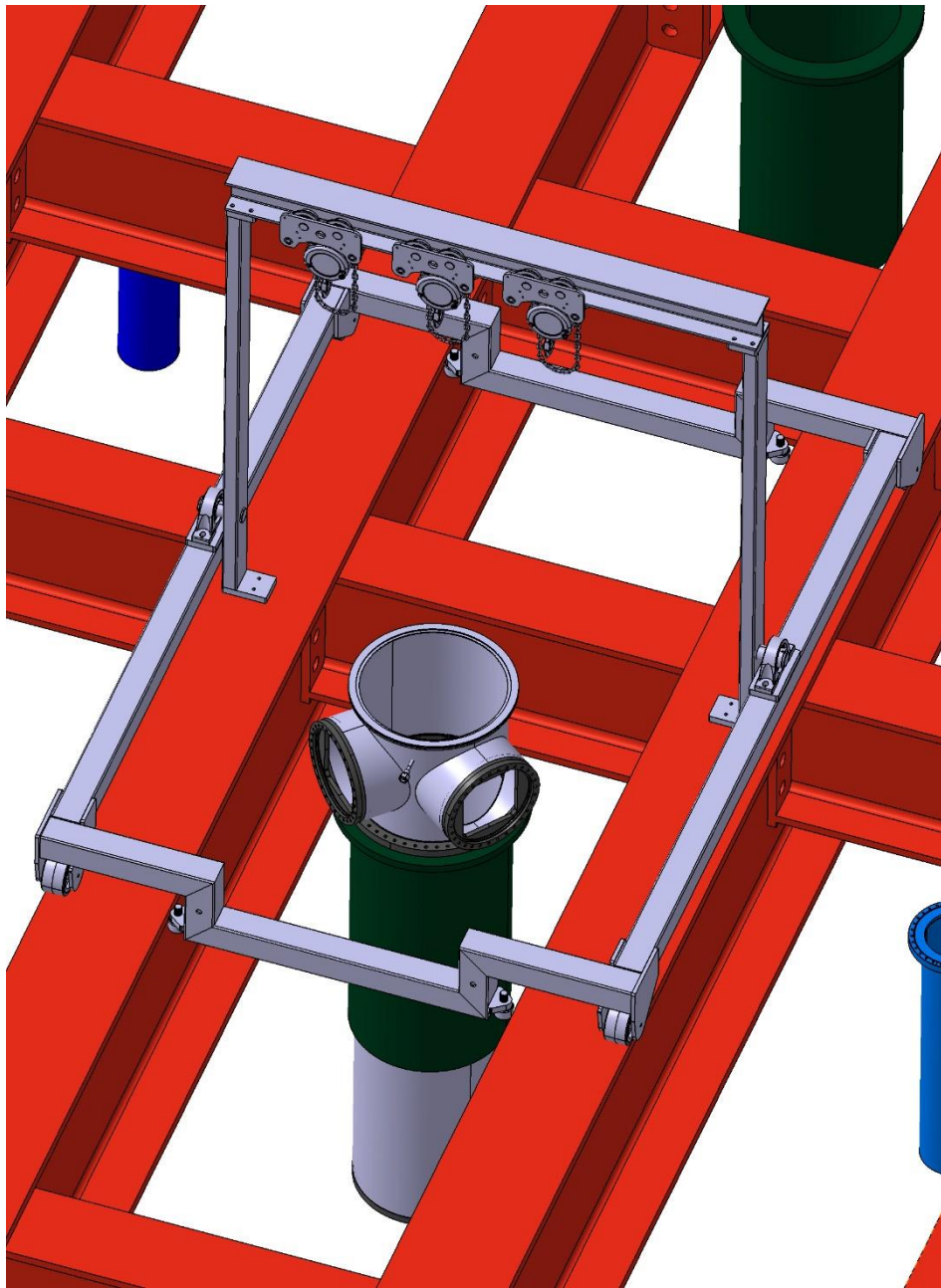
Step 16 : Rotate in right position



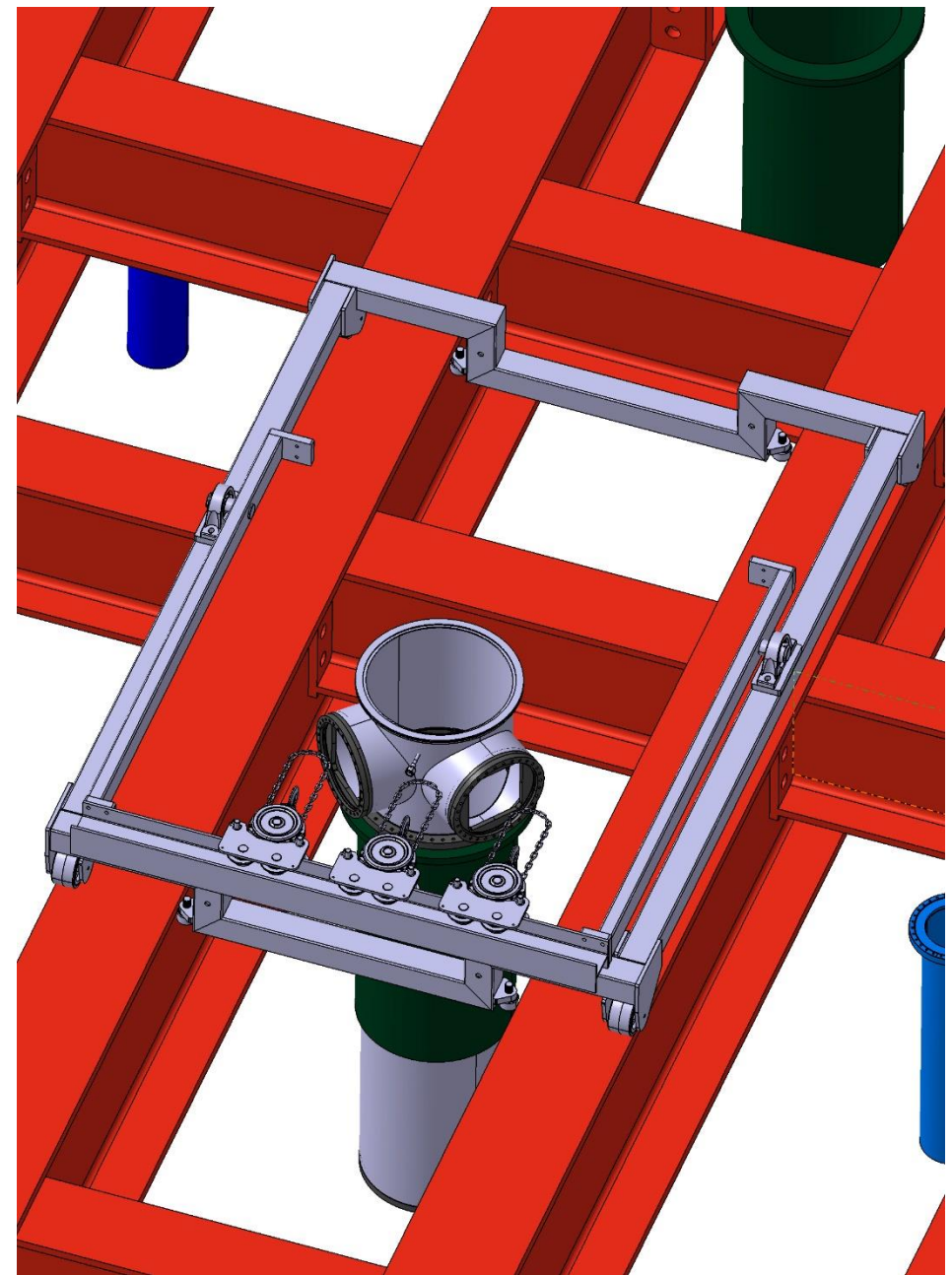
Step 17 : Lower in the right position



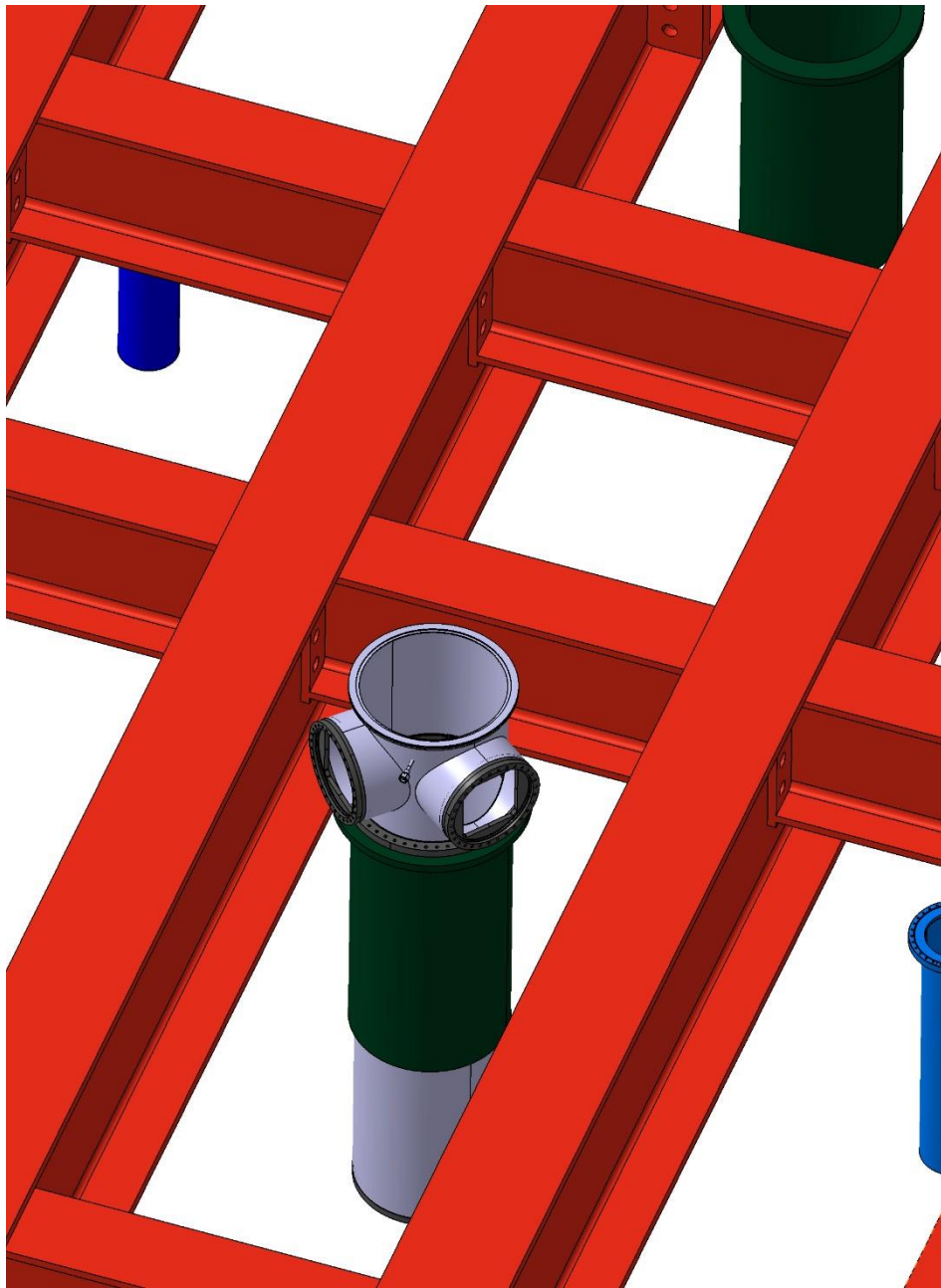
Step 18 : Remove hoist, slings and eyebolts



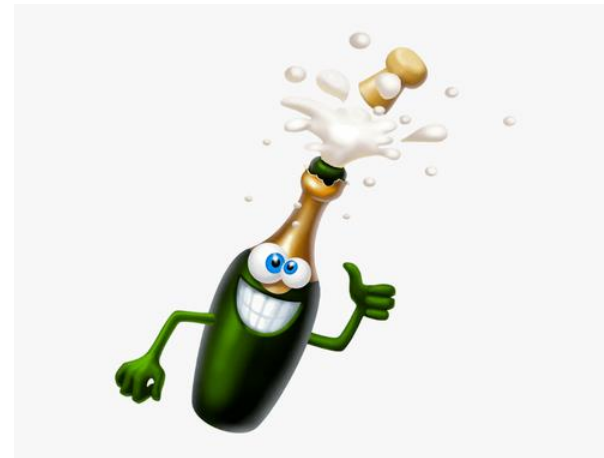
Step 19 : Remove central crane



Step 20 : Fold cart

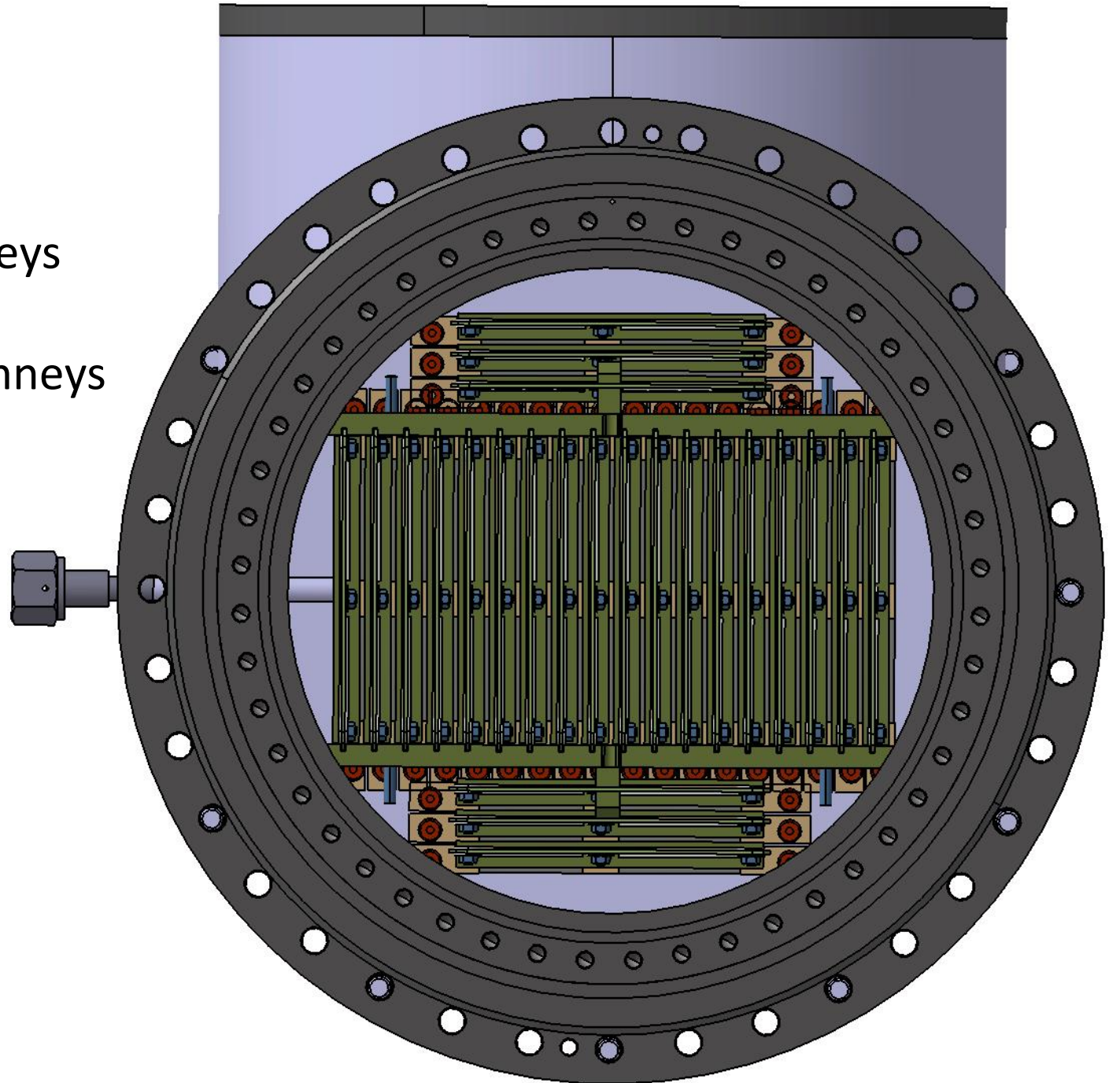


Step 21: In place

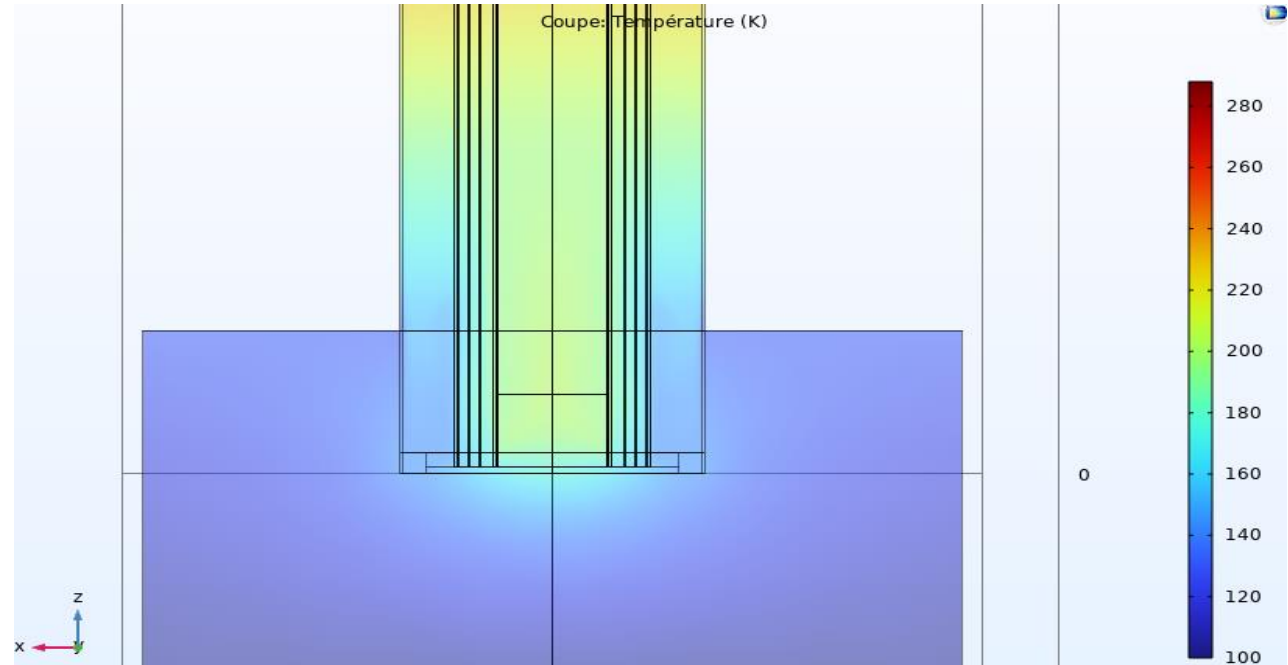
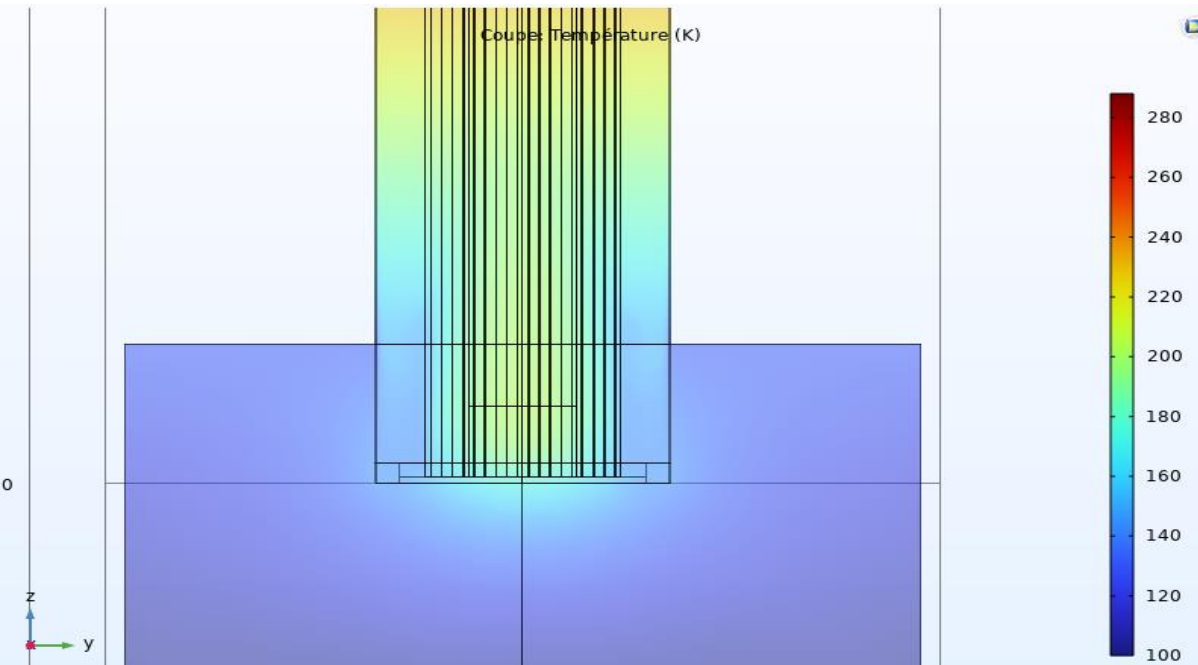


Thermal Simulations

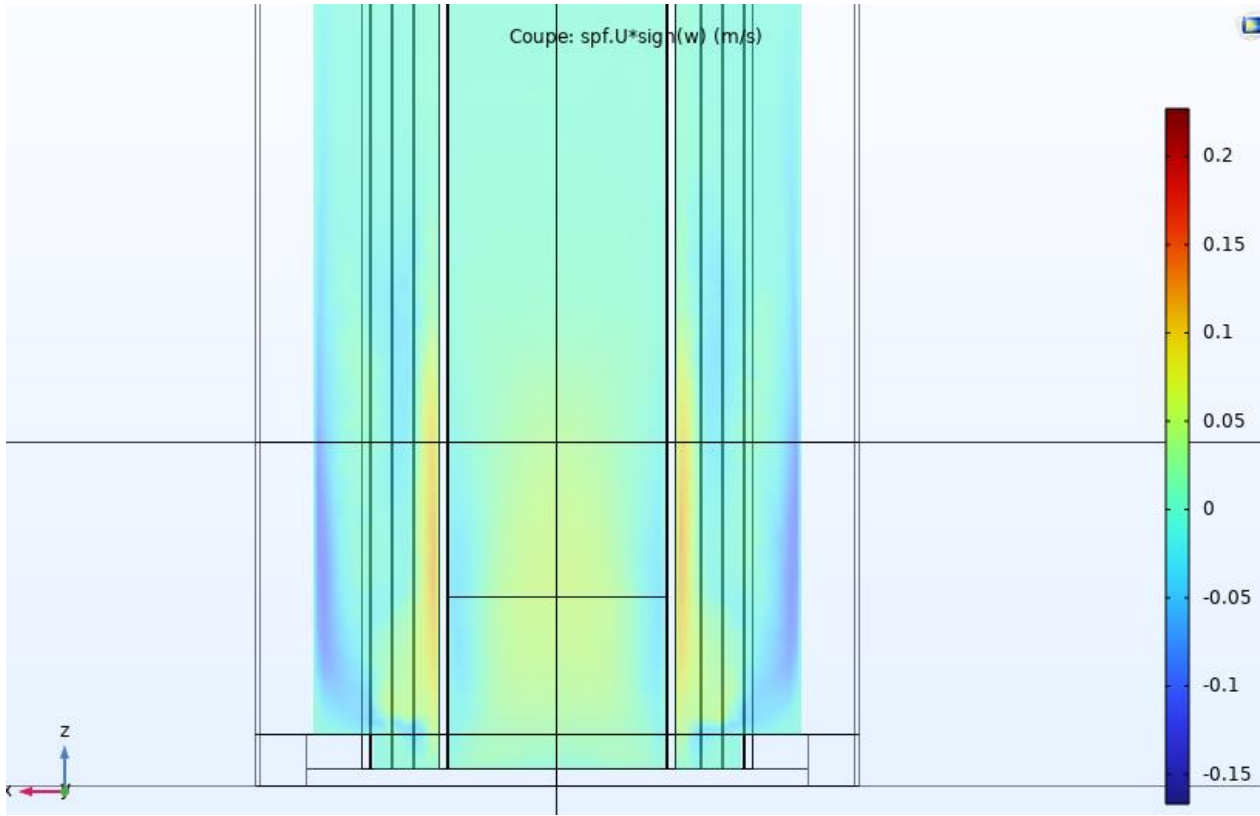
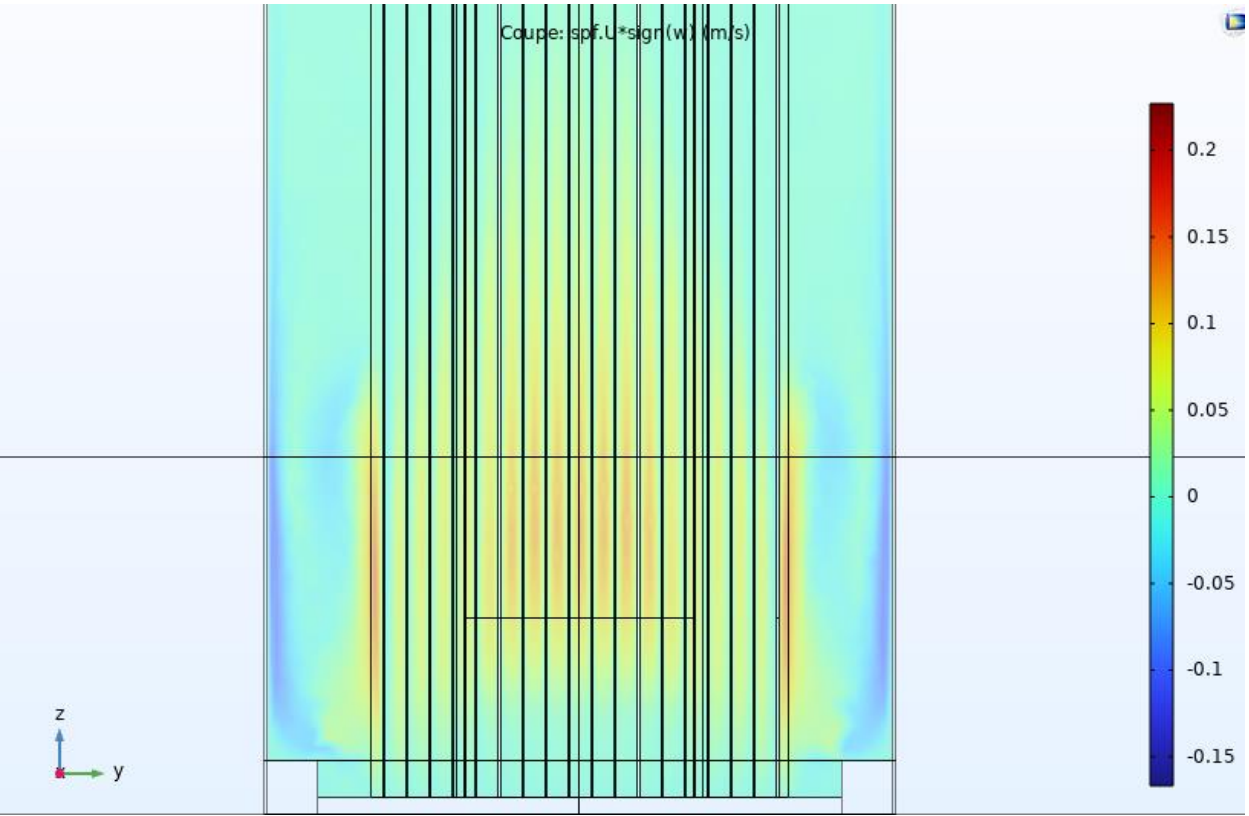
- Simulations OK for 10-cards chimneys
- Simulations done for 24-cards chimneys



	Boards only	Boards+Blades	Boards+Blades+Guides	Boards+Guides
Central Temperature	105 K	157 K	215 K	180 K



Nitrogen flow



- Simulations in progress with new guiding or blade design with better air flow
- Simulations to be done for 48-boards chimneys