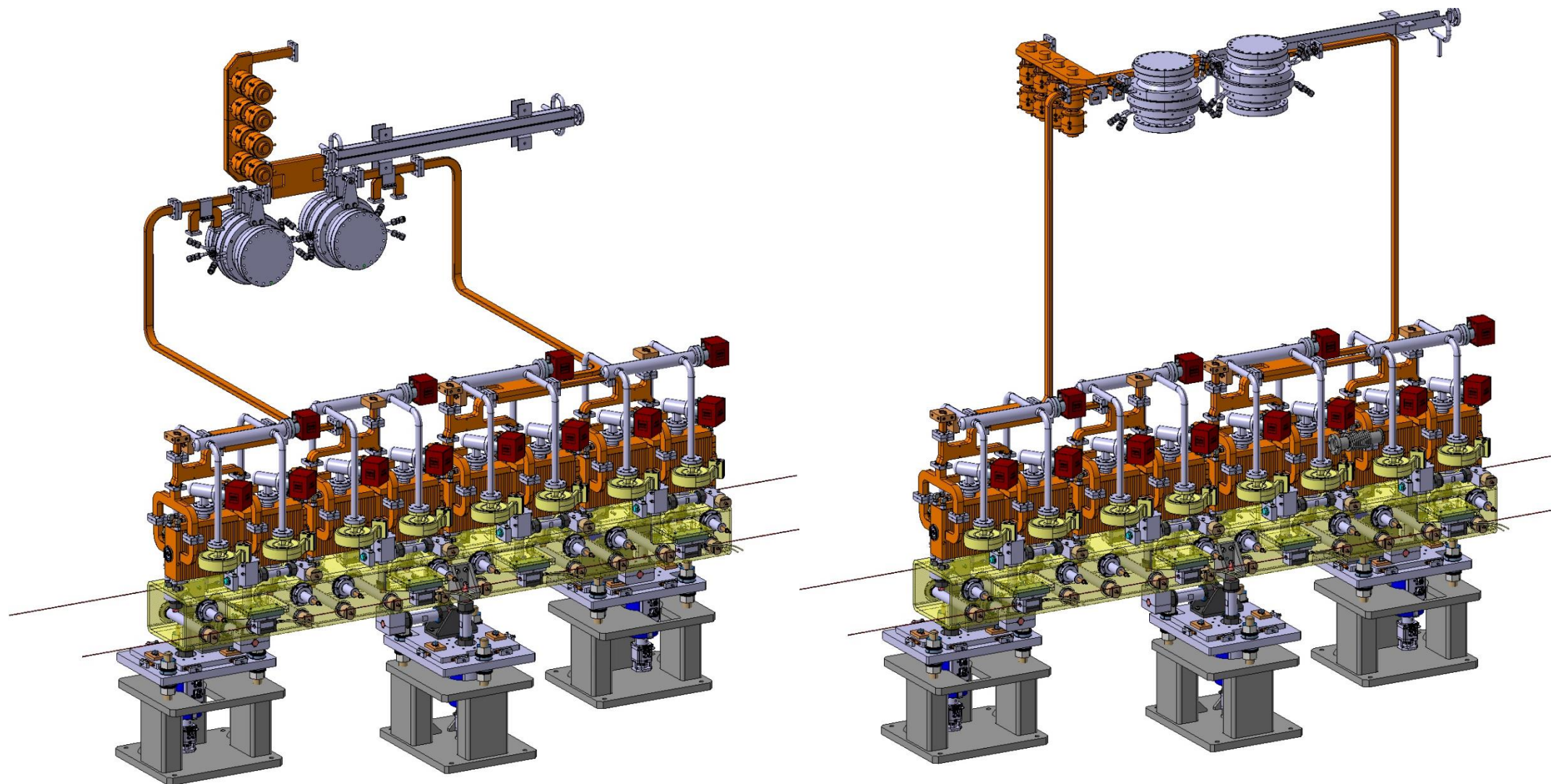


# K-Mode CLIC Module RF Network

Matthew

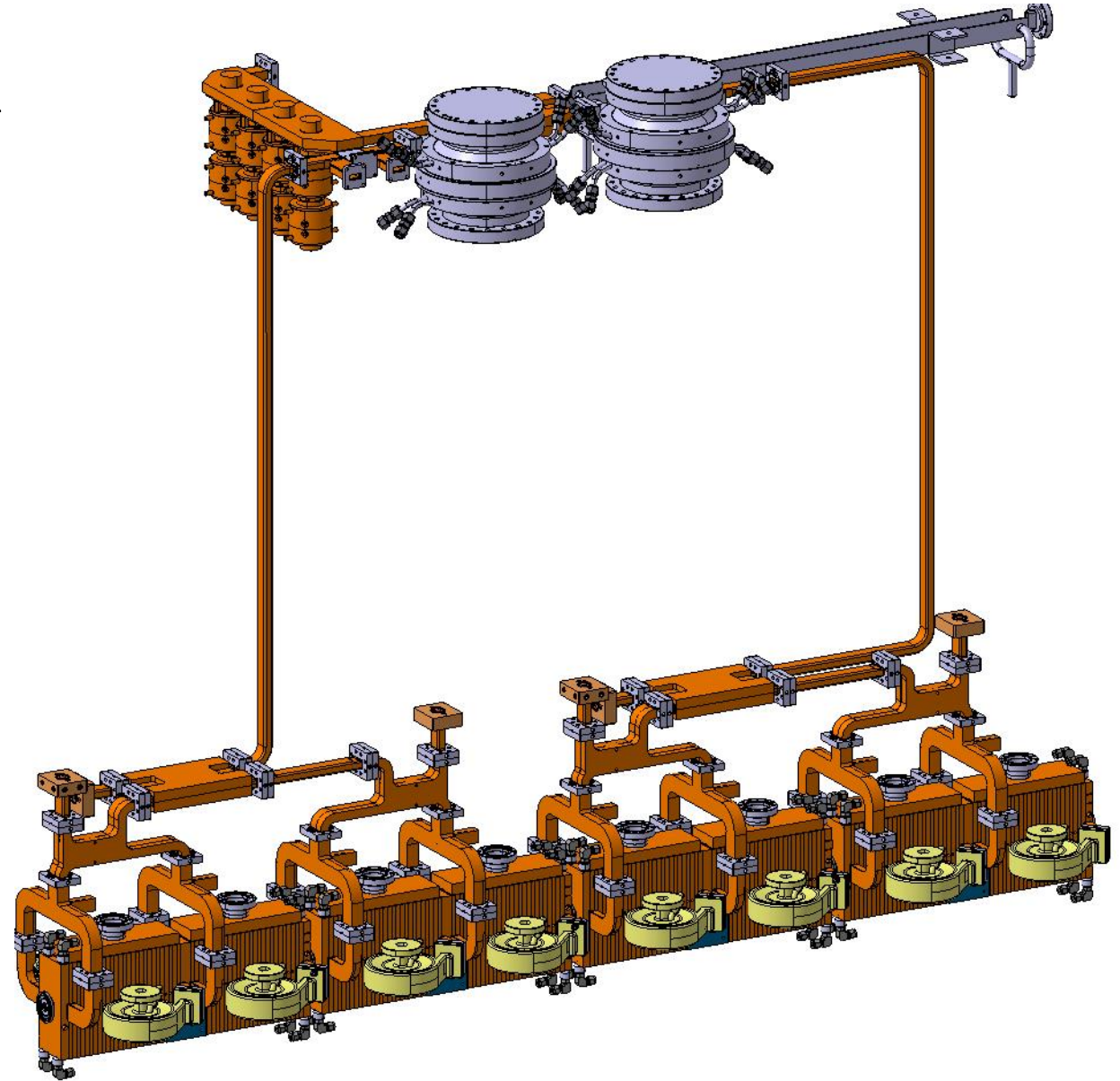
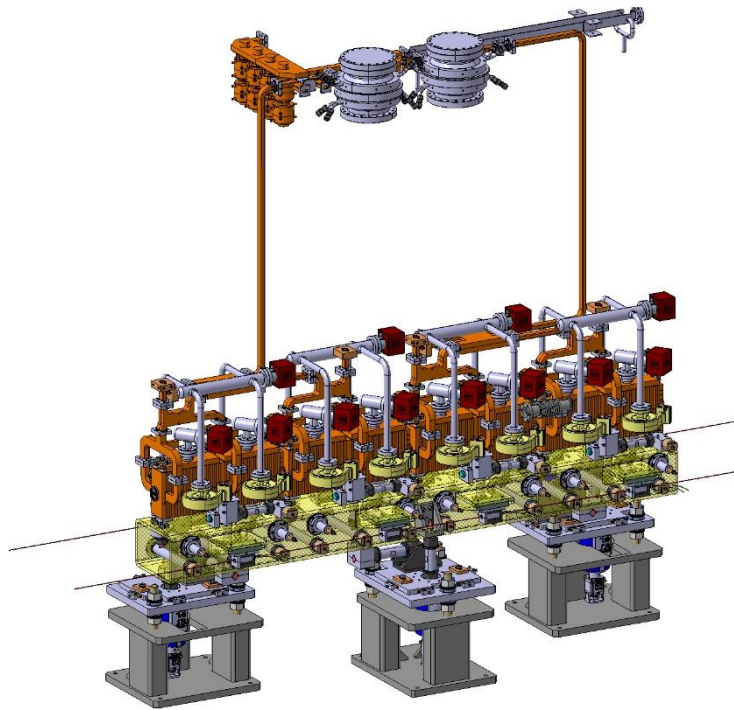
09-11-2022

# Module RF Network



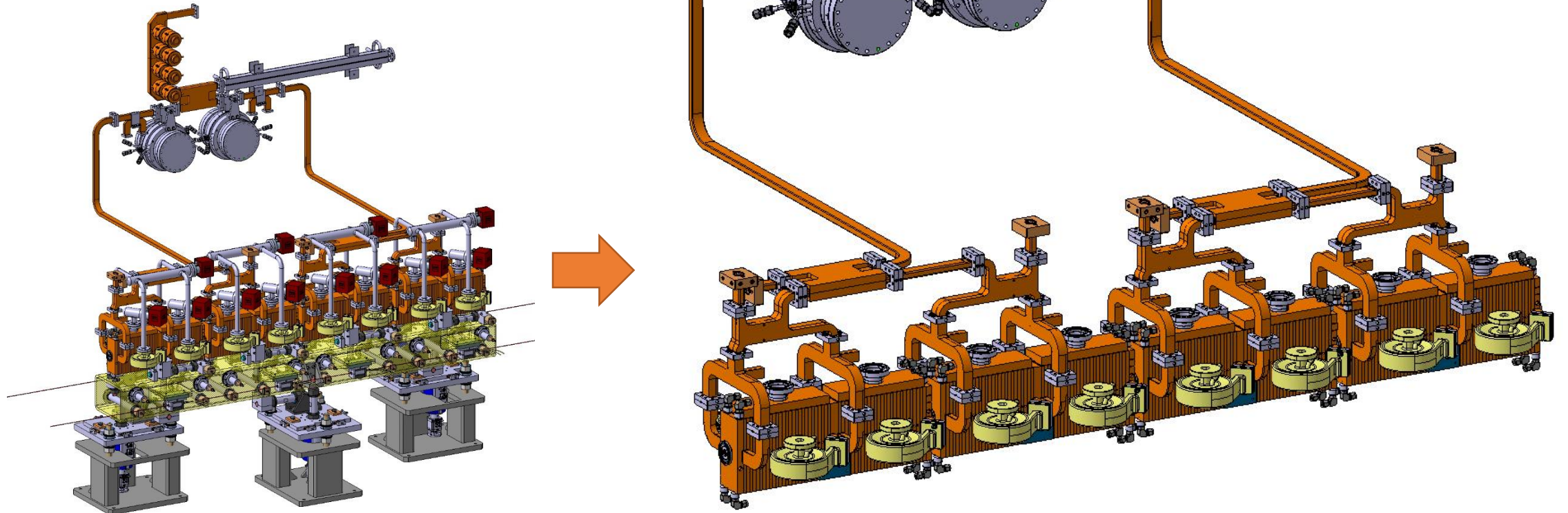
# Module RF Network

- BOCs mounted directly above the module



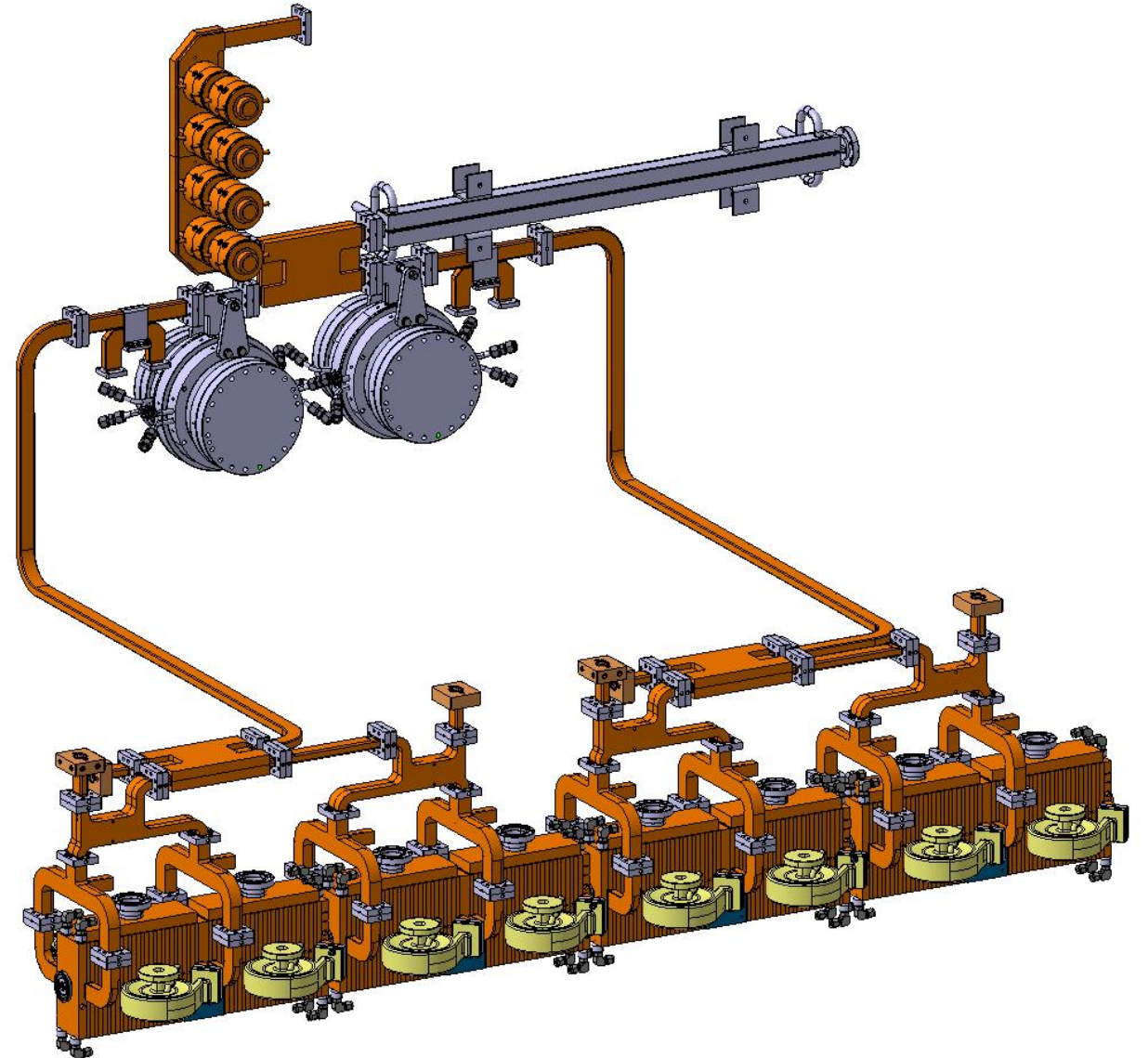
# Module RF Network

- BOCs mounted to the wall next the module

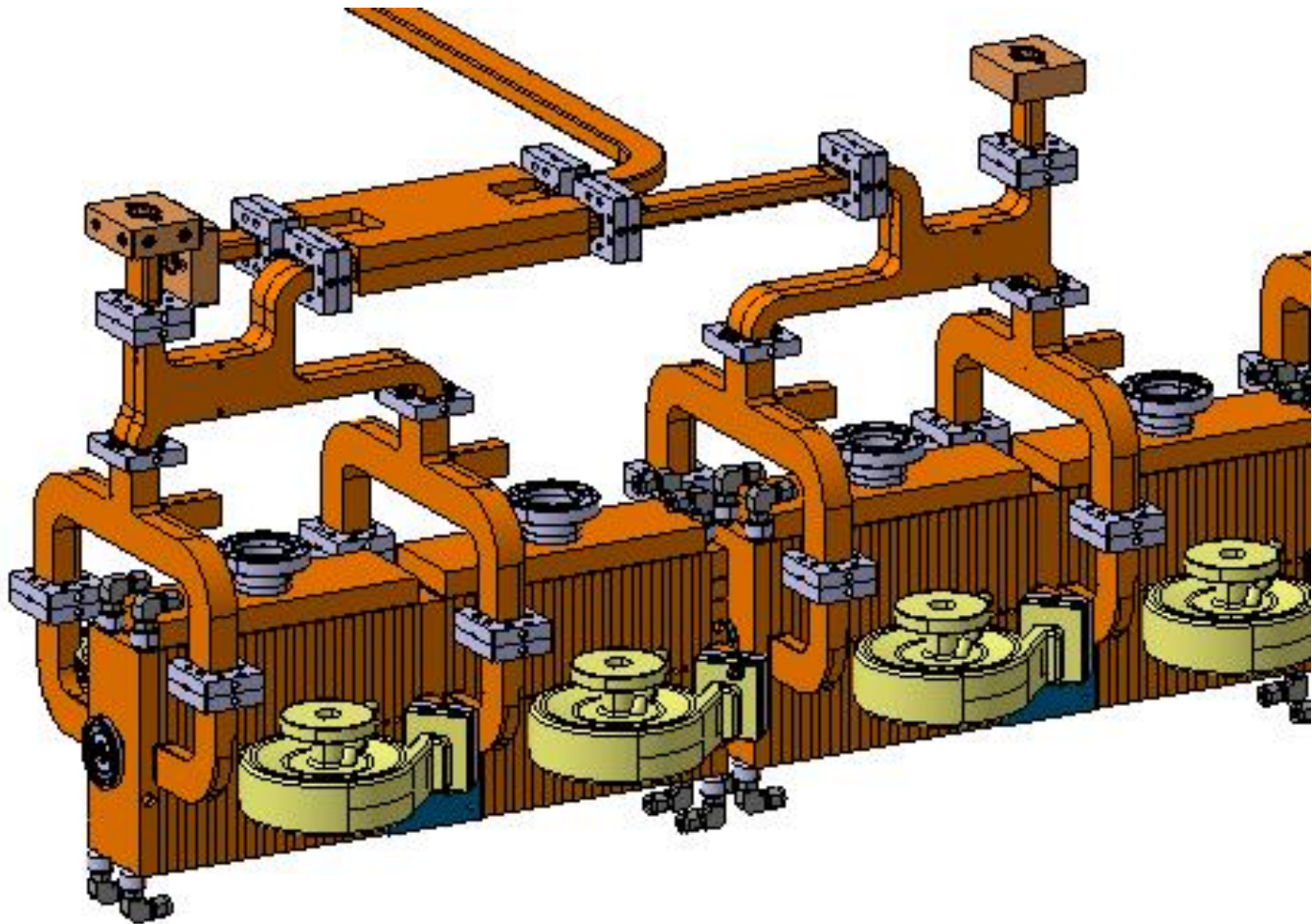


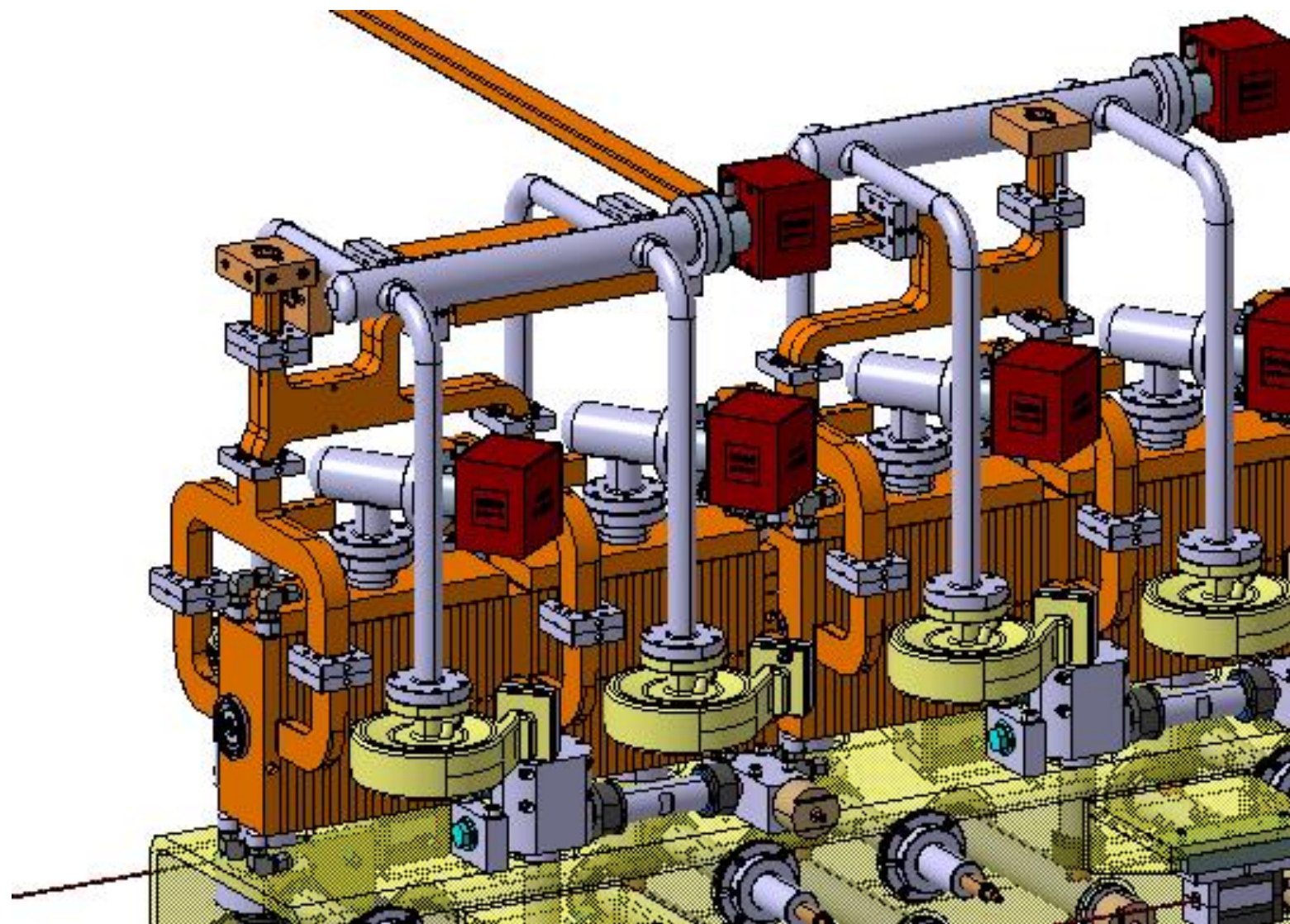
# Module RF Network

- Questions:
  - Which configuration is preferred?
  - Is the RF network layout correct?
    - Correction cavities, BOCs, loads etc.
  - Would double height waveguide be used?
    - Where?
  - Do the waveguides need pumping?
    - Large RF Load
    - BOCs
    - Correction cavities
  - Number of flanges
    - Are we intending to braze the hybrids, splitters, structures in a single operation?
  - WG to Klystron
  - Supporting systems



# Structure RF Network

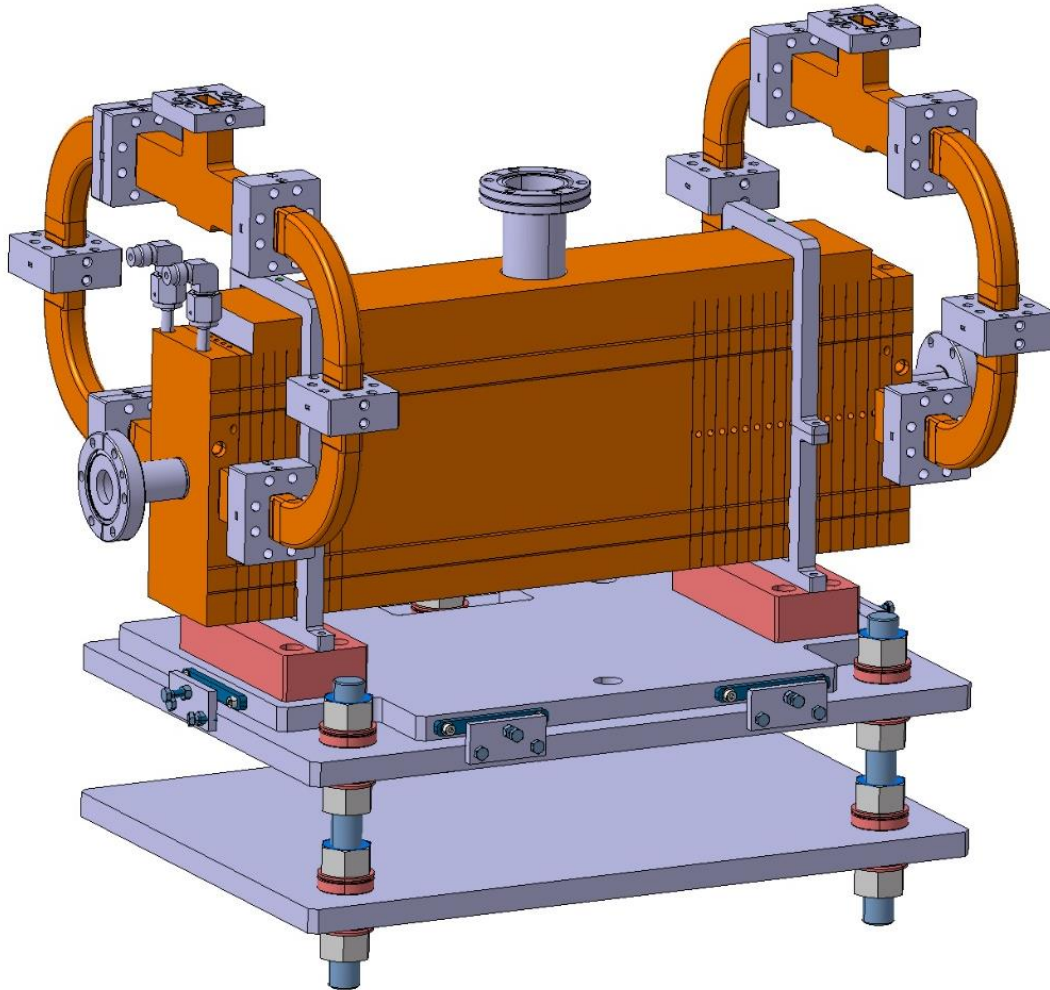




DEFT



# DEFT



- Previously put together model of a FLASH/DEFT structure positioning system.
- Uses a simple (and outdated) structure model.
  - Can be updated to correct disc, coupler, waveguide model
- Simple screw based adjustment
  - Sufficient for the 100 $\mu$ m precision suggested
  - Needs to be discussed/confirmed with the Survey Team
- No consideration for Girder type and integration
- No consideration for RF Network integration with girder, e.g. rotating the structure, passing waveguide along the girder i.e. PSI.