



# TCLMs Masks

## HiCoIDEM

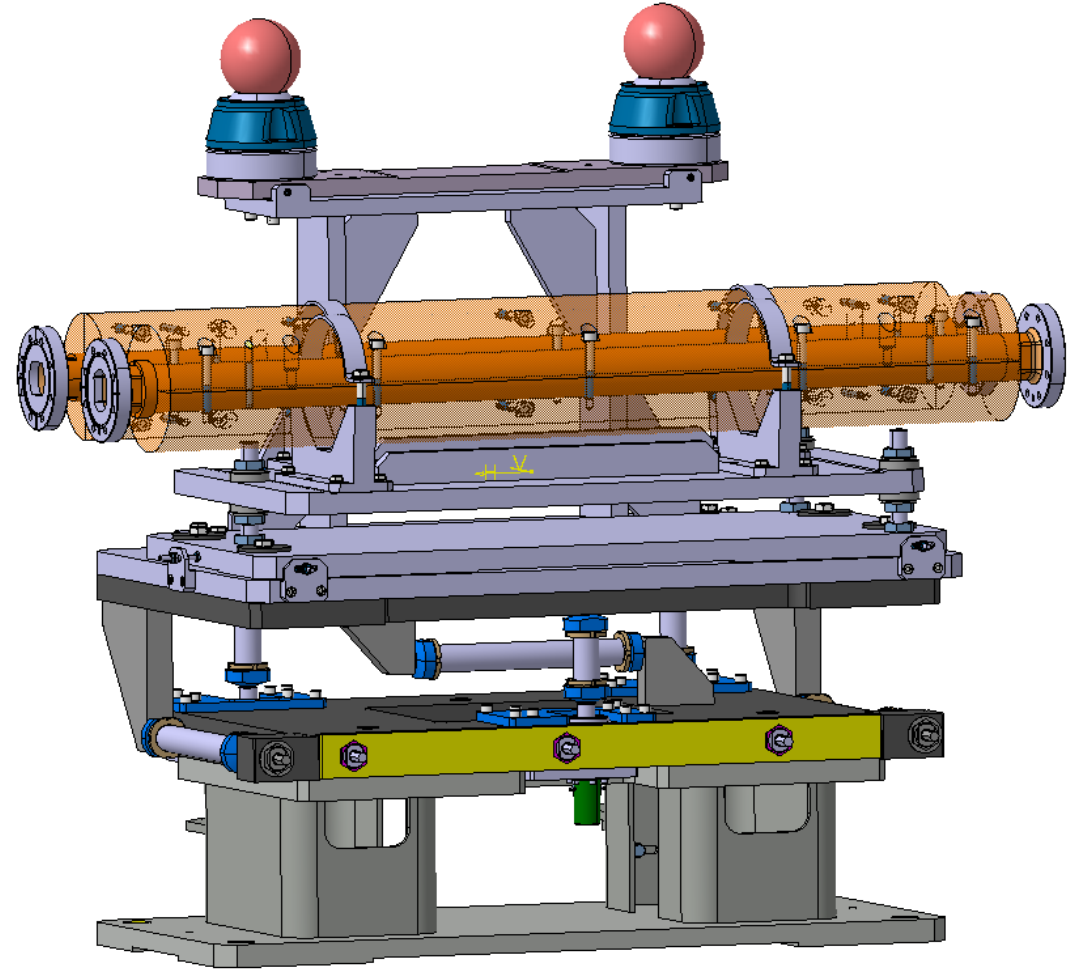
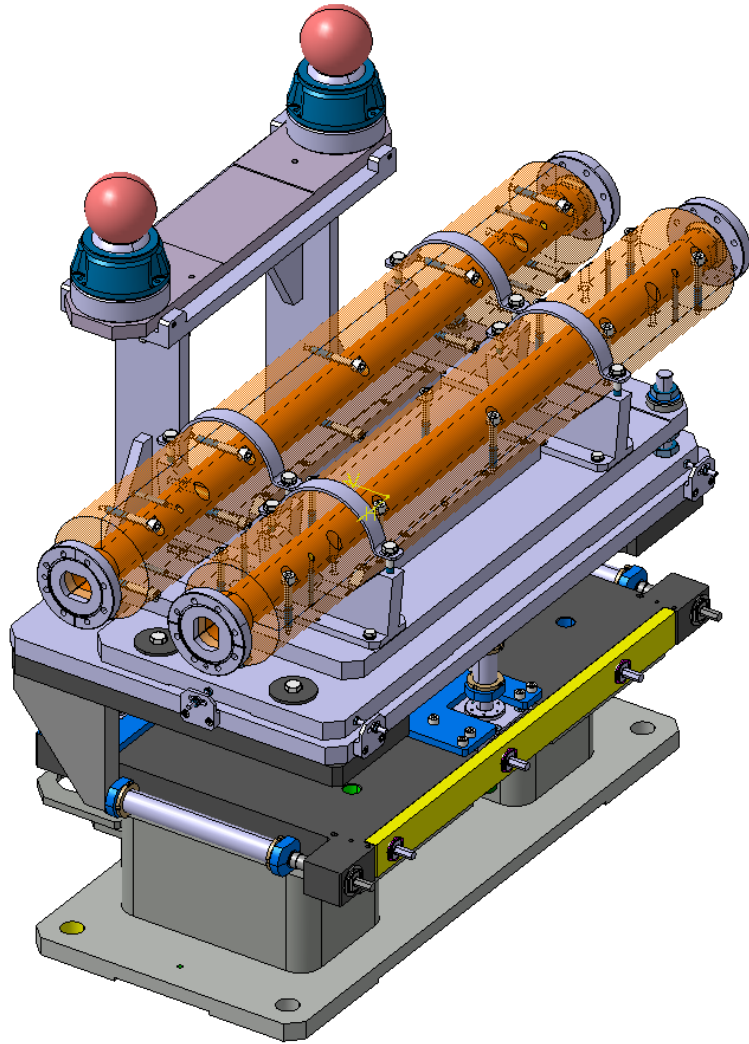
E. Berthomé, L. Gentini

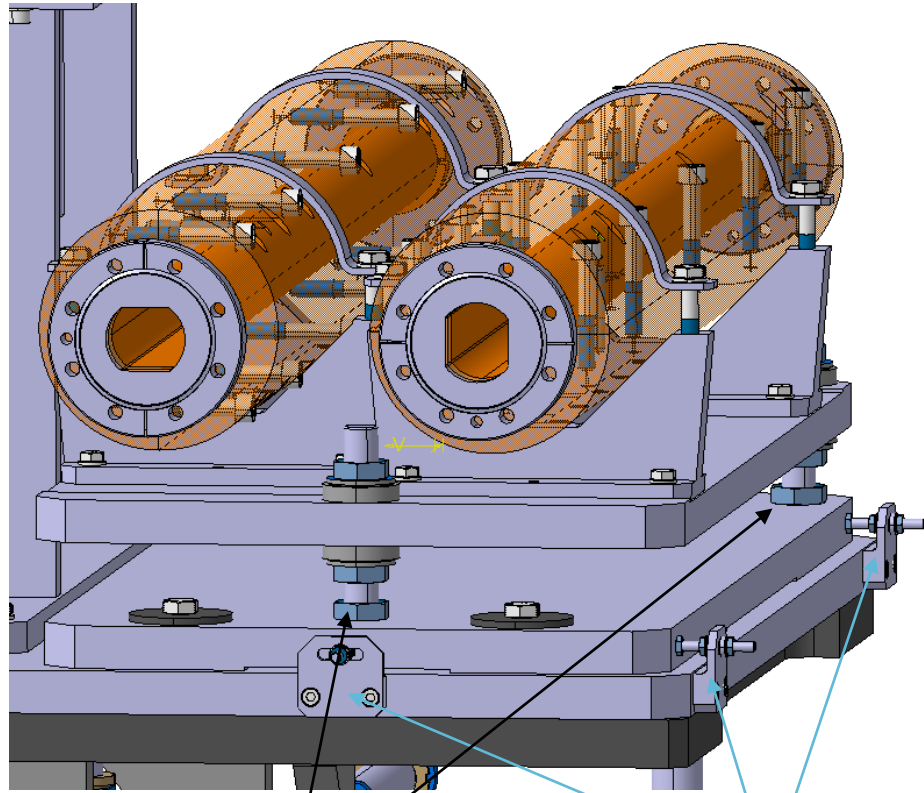


**EN** Engineering Department

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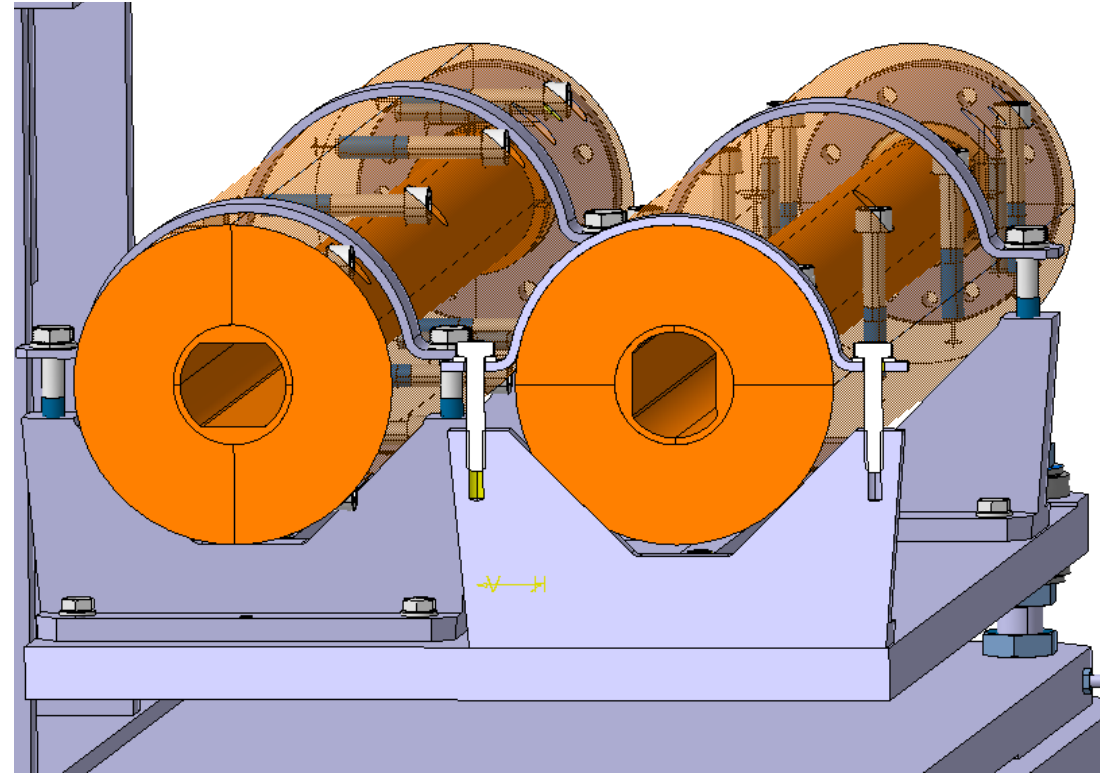
# TCLMs Masks design



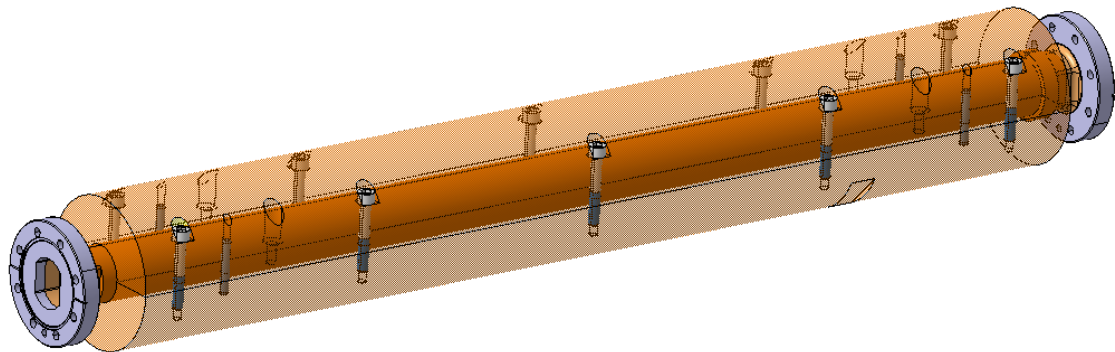


Tilt adjustments

Independent adjustments

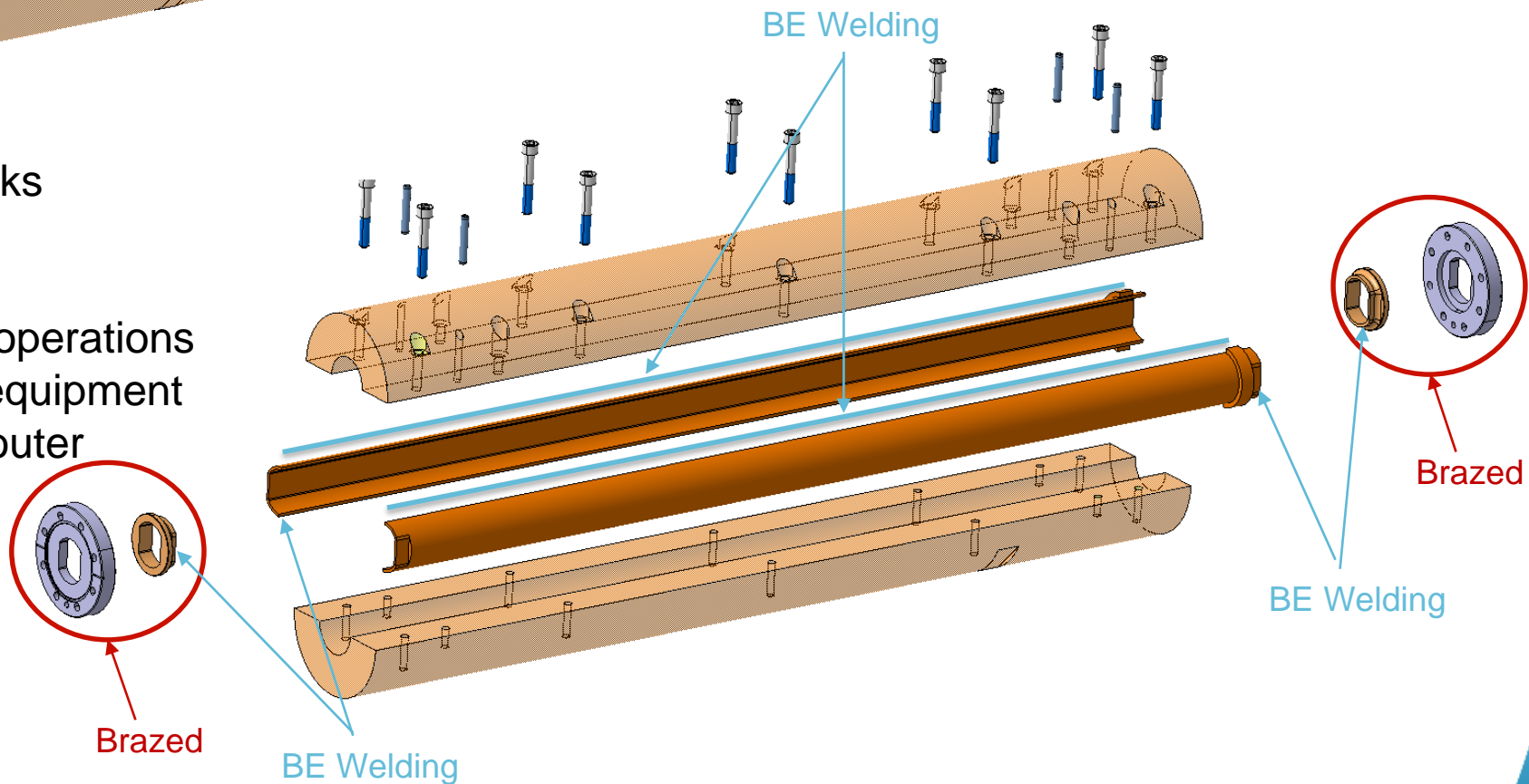


# Mask design sol.1 : Compatible with W and Cu masks



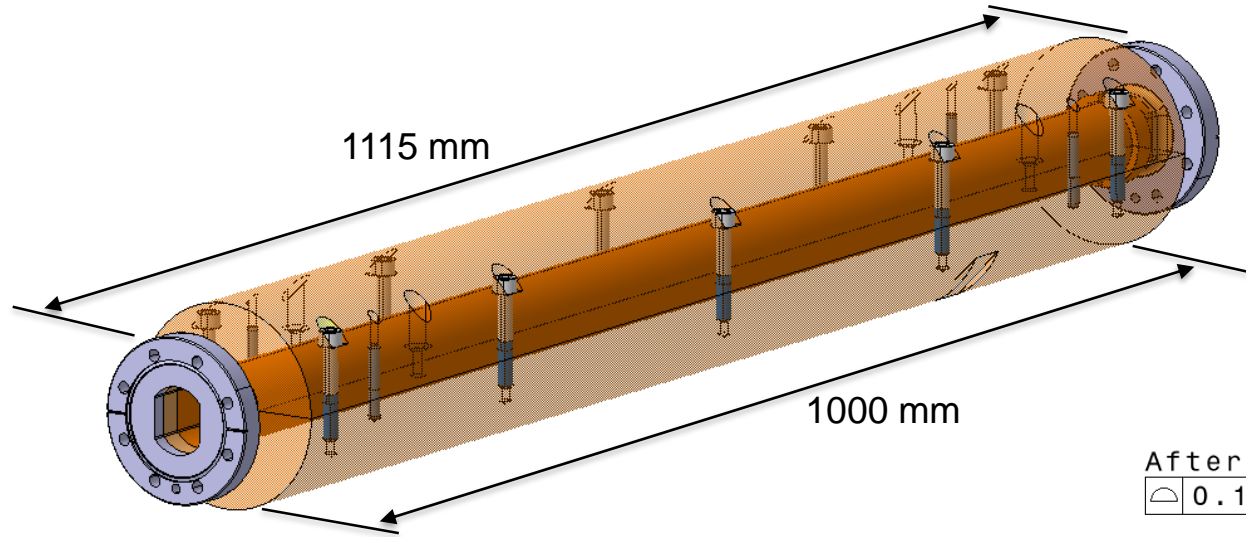
+ :  
-> Compatible with W and Cu masks

- :  
-> A lot of machining and process operations  
-> Very long-time machine for 12 equipment  
-> Position of inner chamber with outer reference not very precise



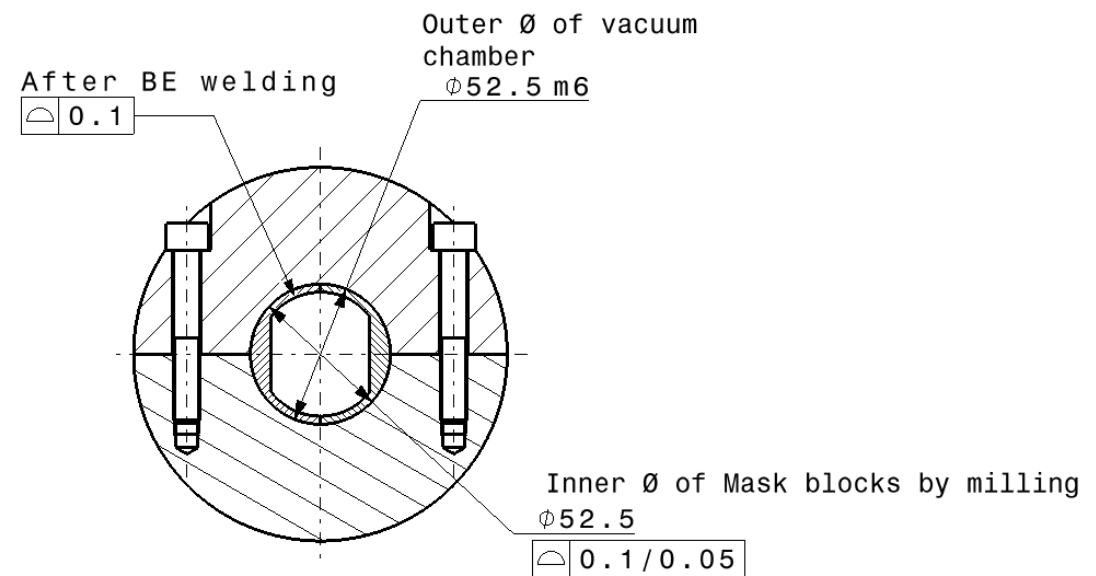


# Mask design sol.1 :

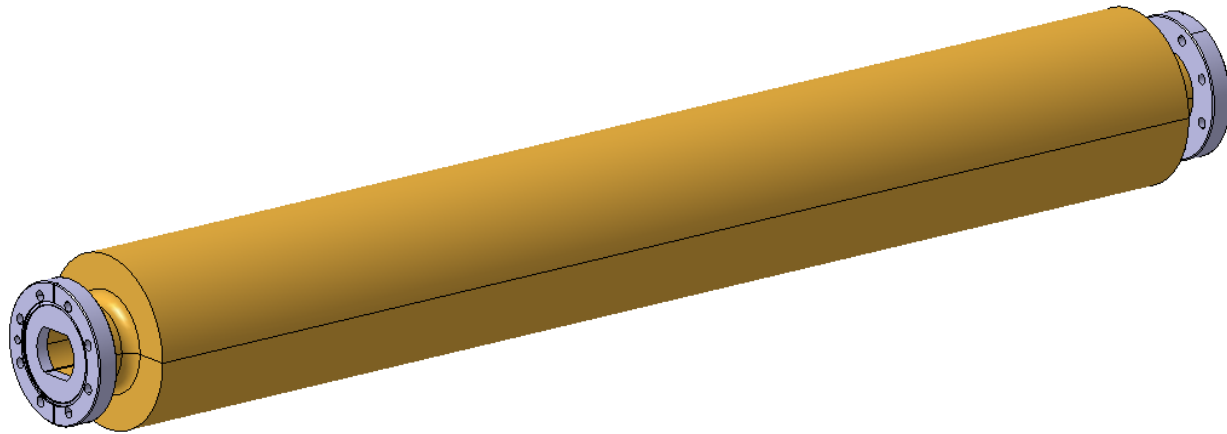


Nota: Same design but the half mask separated in several parts in the 1m long could be made.

-> 333mm long blocks allow turning machining of inner diameter = Little bit more precise



# Mask design sol.2 : 2x half Cu chamber brazed

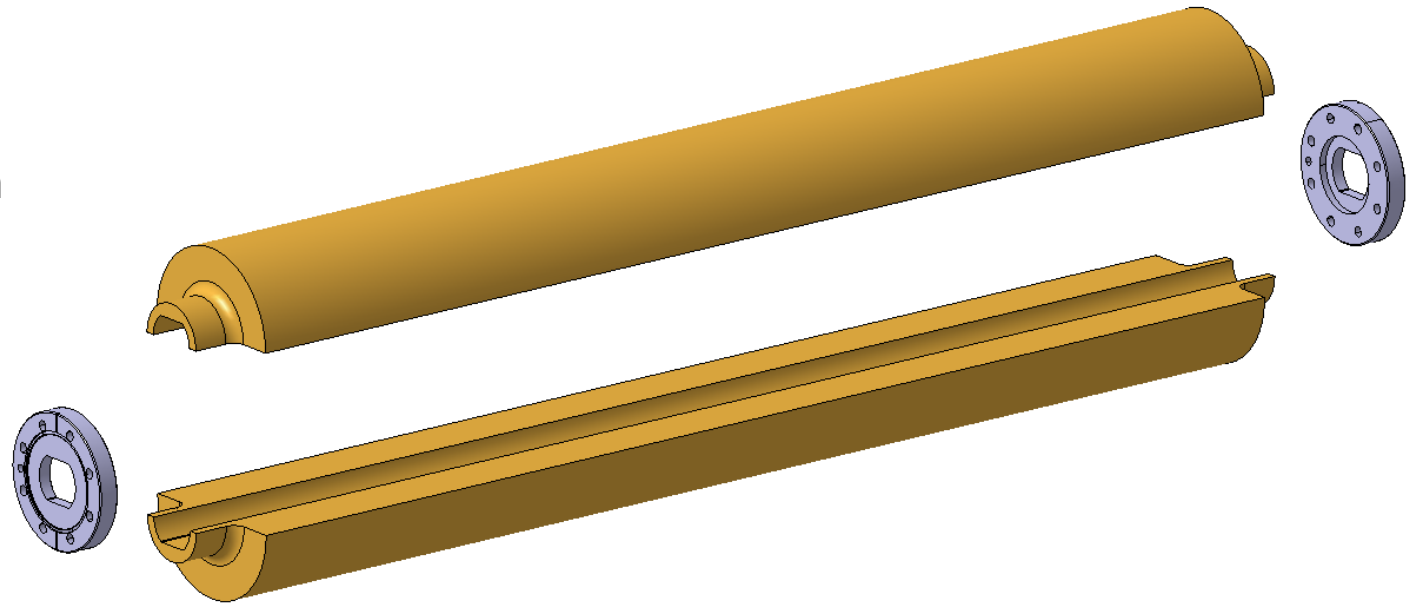


+:

- > Less raw material (~ -30%)
- > Less machining and process operation

-:

- > Only for Copper masks
- > Vacuum leaking obtained by brazing



# Mask design sol.3 : 2x half Cu chamber BE welded

