



pfRICH updates

Sushrut Karmarkar, Andy Jung 20 May 2024



pfRICH end ring #1 bonded





We faced more challenges than expected when getting the alignment done

This was a good learning experience and will be documented in detail for things to work on to make the process smoother for future iterations



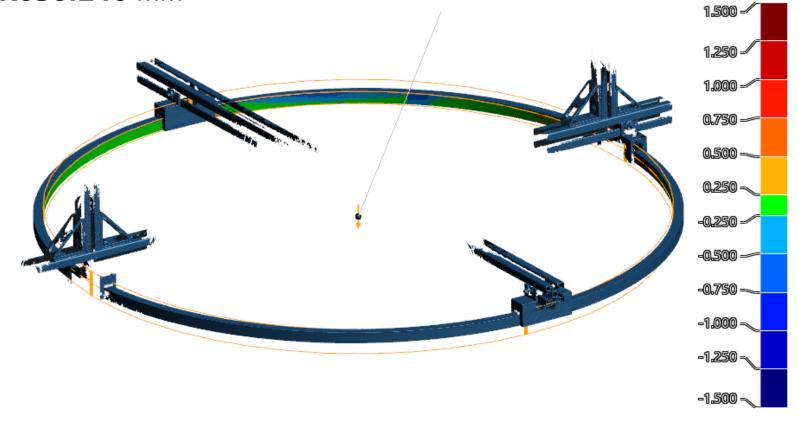
Inner Surface Scan



TARGET was R630.272 mm

Achieved R630.246 mm









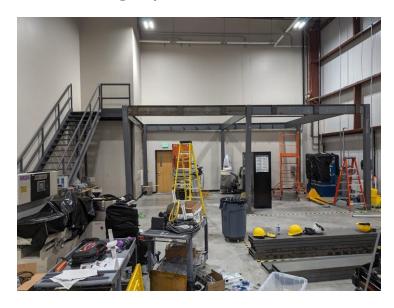
pfRICH end ring update summary



- 9 quarters completely machined and dry bond tested.
- 8 for 2 end rings and 1 spare for sealing tests
- First ring bonded target radius was successfully achieved.
- Second end ring dry bond test and metrology in progress today – should finish by end of day
- Second ring bonding later this week shipping to SBU on Friday 24th May.

- O Delay in process from timeline by 1 week caused due to disruptions in lab space access
 - And Sushrut being out of office 2nd half of last week.

New storage mezzanine coming up in the lab – causing disruption to working space in the lab



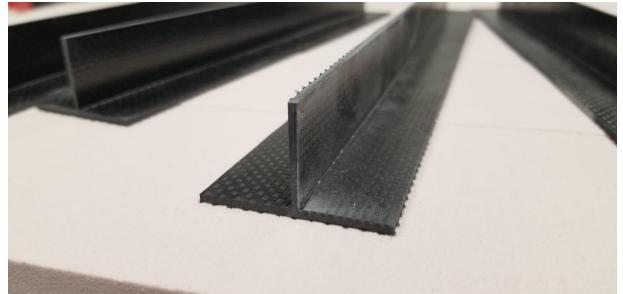


T-Beam prototype









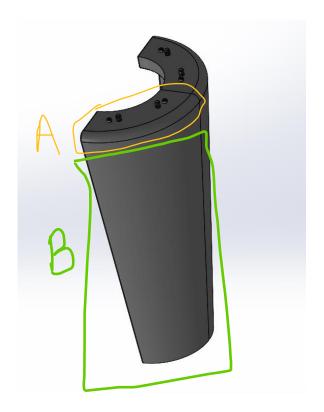
T-beams edge cut to size – next step is to machine the bonding cross beams and get the first 2x2 prototype



Mirror updates



- First curved lexan co-bond planned on Thursday this week
- Request by Kong 7x7cm flat sample can be incorporated in this co-cure planned on Thursday 23rd May



- O Inner Mirror − curved surface is too sharp for a single ply to wrap around − but this is not a problem and not needed as the structural requirements are minimal.
- We will be able to manufacture this geometry by using 2 pieces of pre-preg layup.

O No changes needed in the geometry as sent by Alex last week are okay and will be used for tool shape compensation simulations.