

Progress on Mechanical Structure

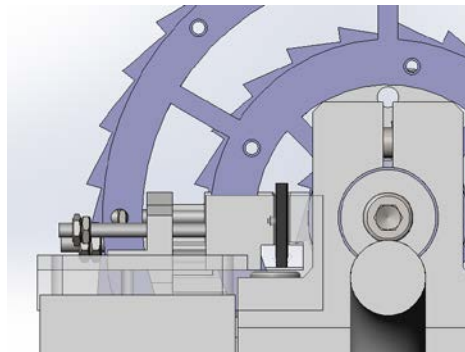
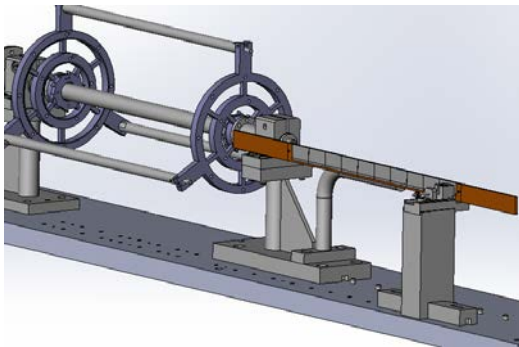
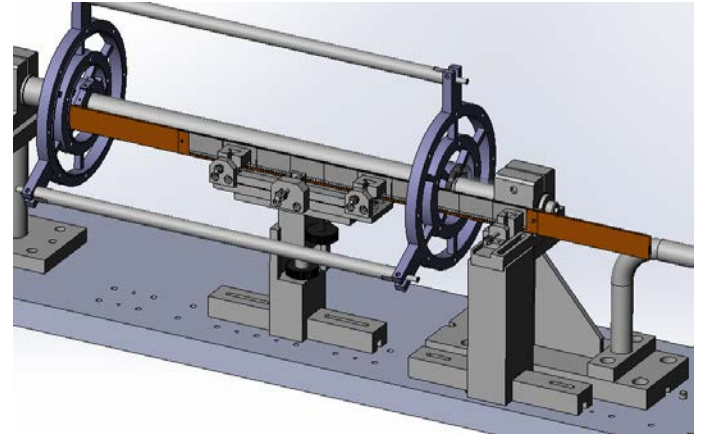
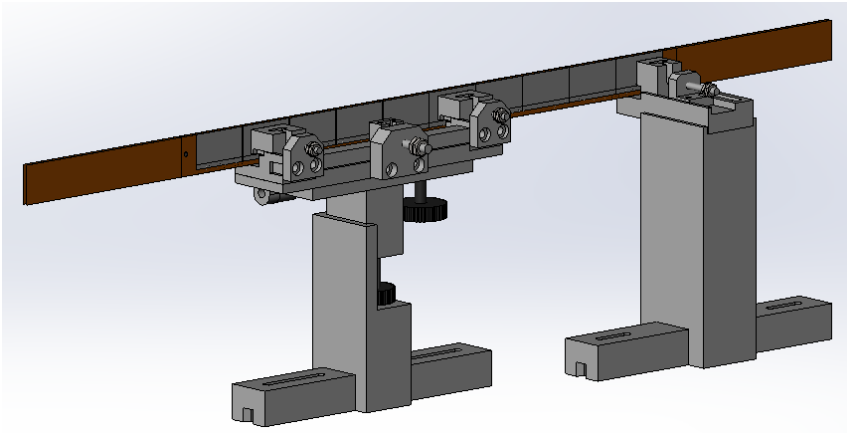
Jinyu Fu

2022/7/28

The auxiliary jigs for ladder installation on barrel

Design finished (two assemblies)

(Allow ladder move in 3 axial direction, rotate along the longitudinal axis.



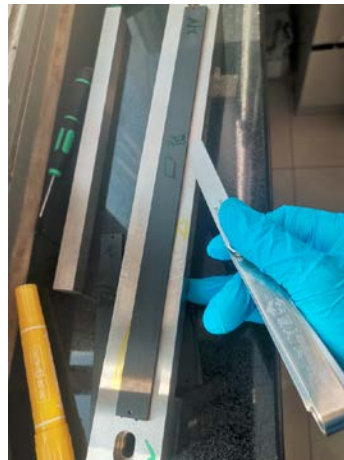
Parts of the mockup has been 3D printed and just arrived, next will be manually post processed and then assembled.

CFRP Ladder support fabrication

Two batches of ladder support were received (*from the company provide thicker material*)

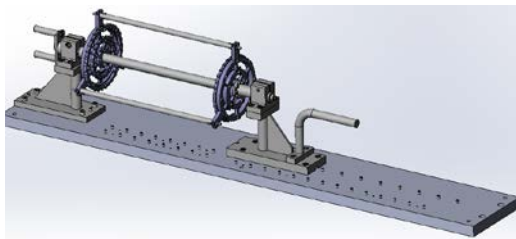
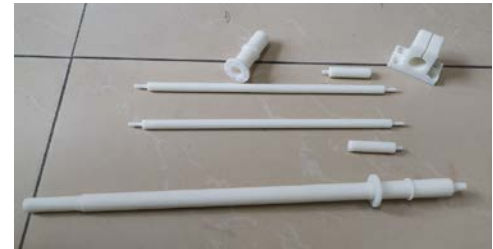
- The first batch: more than half were returned./ (meeting, figure out way to improve process)
- The second batch: much better, most of them meet requirement, except for only a few with lower local flatness.

So far 30 (8-w+22-n) ladder support are available.



Mockup of the VTX support and tooling

- Most of the parts are 3D printed and available
- To assemble the VTX support and the tooling structure, manual taping (or screw die) were tried for parts those has threaded hole (screws), it works for most parts, only a few failed due two sizes and material.



Need machined side-rings to realize ladder support fixation by screw.

The base plate of tooling just finished 3D print, to be manually taped the threaded holes.

Verified:

- Enough operating space for mounting ladder support and screws.
- Tooling assembly process.



Next: barrel assembly, barrel transfer and installation (VTX assembly)