

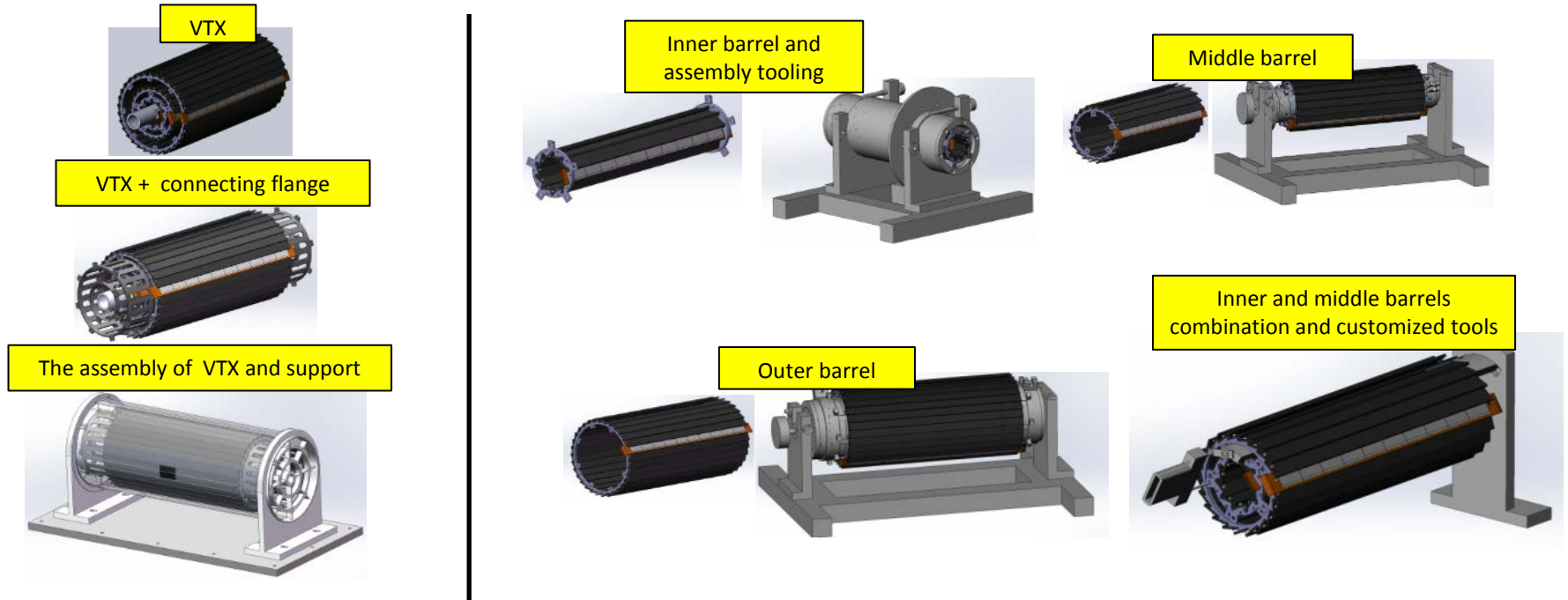
# Mechanic status

2021-1-29

Jinyu Fu

# VTX Prototype and Assembly Tooling

- 3 sets of assembly tooling for barrel assembling.
- One tooling and one special tool for inner and middle barrels assembling.



- \* Ladder support prototype(sample) production are being communicated with manufacturer.
- \* materials that used for support structure-side ring(flange) is being investigated and engineering drawings of some trial parts are being drawn, manufacturer and inquiry is being looked into.
- \* Engineering drawings to be done.

For the VTX prototype, the scheme with the barrel assembled by half + half is also being considered.

# Tooling and instrument for test

Most of the ladder prototype (and VTX) test related items have been considered:

- Detailed design of platform and tooling for test:

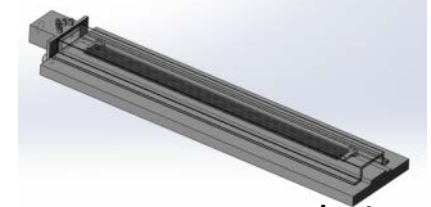
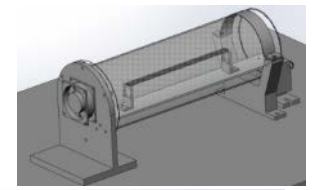
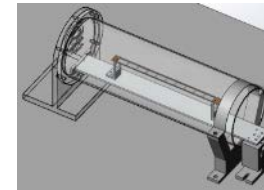
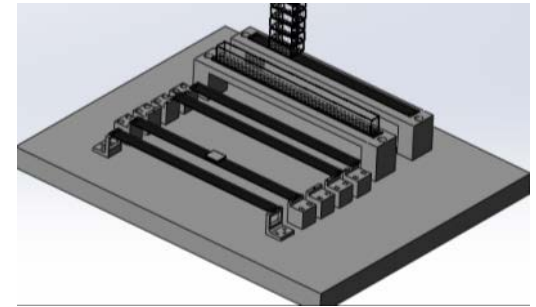
Static (different cases)

Vibration and cooling (different specs)

Vacuum test plate (new)

- Auxiliary instrument

To measure : deformation, temperature, air-speed, flow rate, etc.



Above is very necessary and should be get ready before the ladder support sample is available. Requires processing in parallel to the ladder support sample fabrication.

Detailed design and engineering drawings of these tooling should have the same priority as ladder support in next step, for the continuity of the VTX prototype process.

***Next, keep more practical work.***