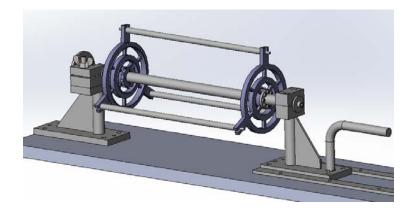
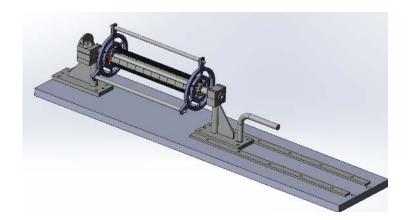
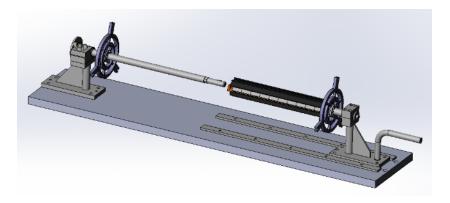
Tooling for barrel assembly



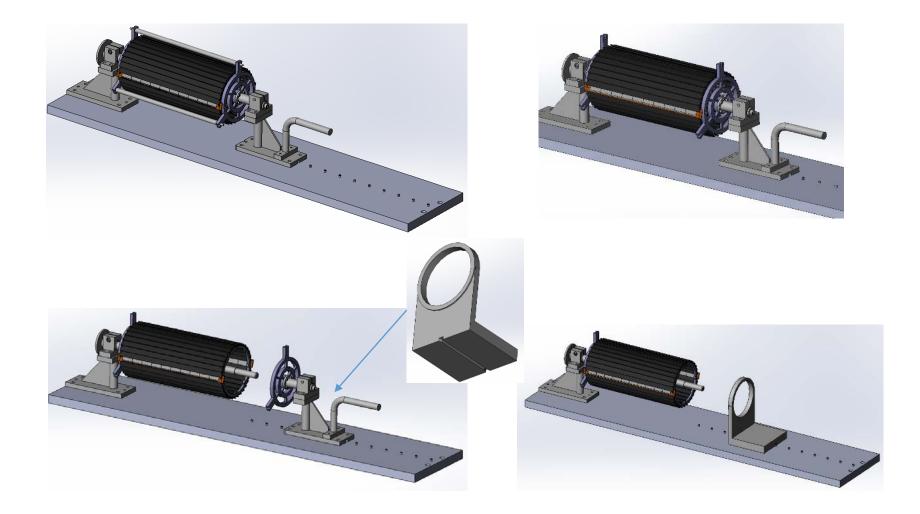




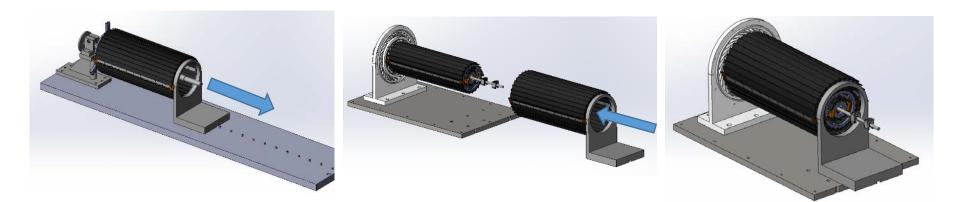
Barrel installation



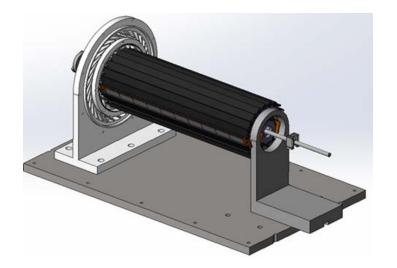
Updated tooling

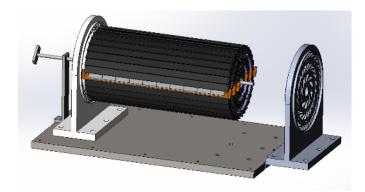


Barrel installation



Similar auxiliary bracket for the middle barrel.



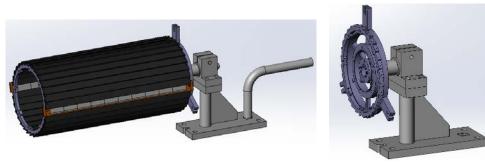


Deformation estimation

The cantilevered *outer barrel* on tooling (with shaft) sinks: 273/120 x (0.017+0.013)/ = 0.07mm

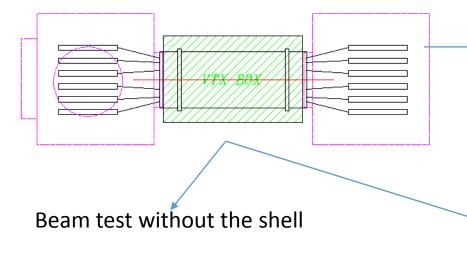


The cantilevered *outer barrel* on tooling sinks: (273/120) x 0.019= 0.04mm



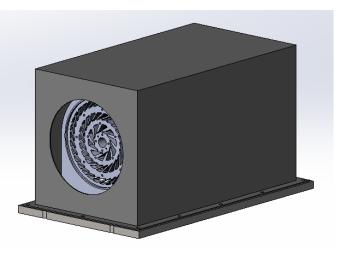
VTXD box

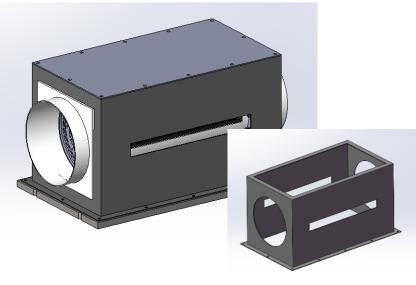
The box for VTXD beam test.



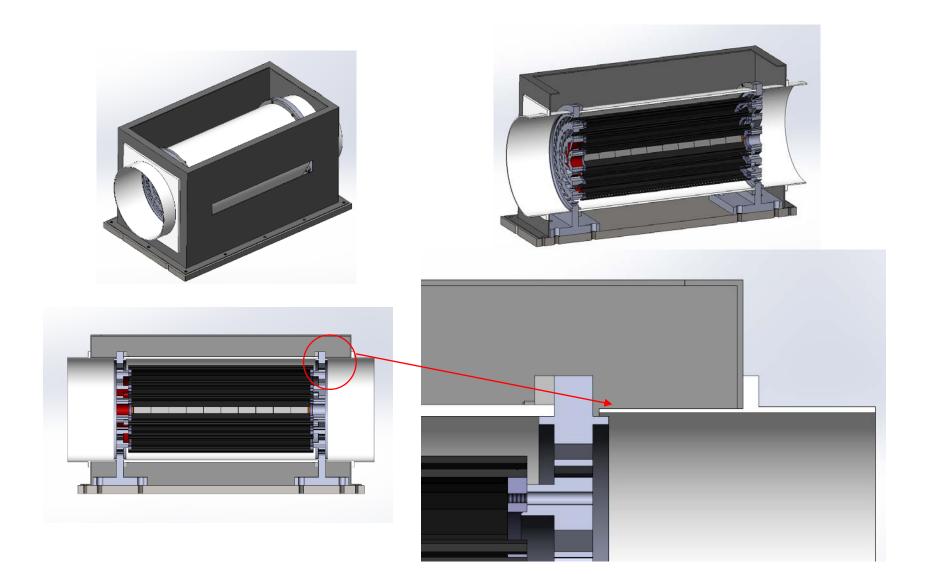
The connections with those which are outside the box (like fan and electronic components) are to be considered.

Beam test with the shell





VTXD box



Weight estimation of the VTXD box

Bracket:	3.25	kg						
base plate :	9.9 (SS)	9.9 (SS) / 3.4 (AL)						
shell :		1.5 mm thick	$1.5 \cdot \frac{7.86}{2.7}$	= 4.367 SS	1.5	AL		
		1 mm thick $4.4.0.75 = 3.3$ SS 1						
Vent tube $\pi \cdot (0.0775^2 - 0.0745^2) \cdot 0.29 \cdot 1200 = 0.499$								
VTX	0.5	0.51 + 0.34 + 0.16 = 1.01				1.5 mm	1 mm	
Total (1)	3.25-2 + 9	.9 + 4.4 + 0.5 +	1 = 22.3	ontimized bracket		21.8	20.7	
total (2)	3.25.2 + 3.4	+ 1.5 + 0.5 + 1	= 12.9	optimized brack 0.5 kg reduced	el	12.4	11.9	