

# Tooling for transfer RFD FPC from test box to outer pipe

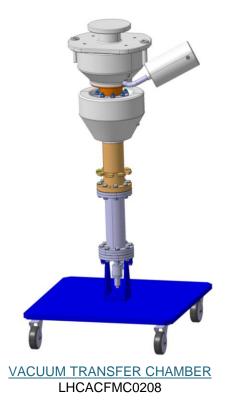


Antoine.boucherie@cern.ch on behalf of SY-RF-AC



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**Location: CLEAN ROOM CERN ISO4** 

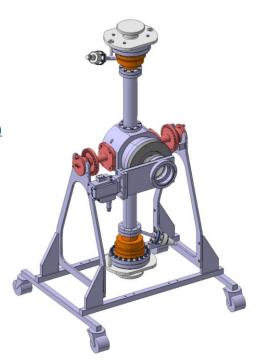






**Removing FPC from test box** 

Slow venting with nitrogen (N2 60)





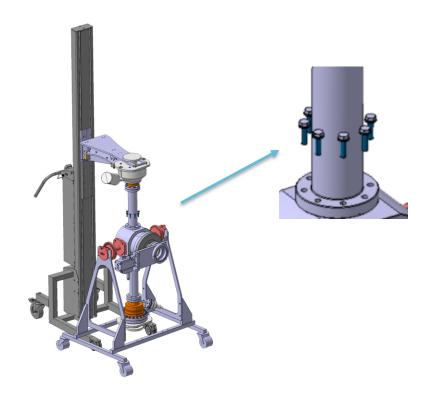








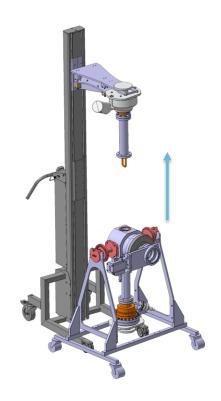
**Removing FPC from test box** 







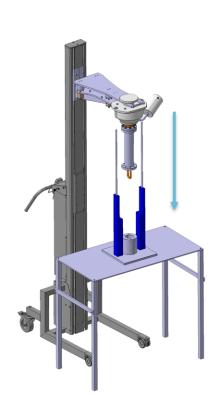
**Removing FPC from test box** 

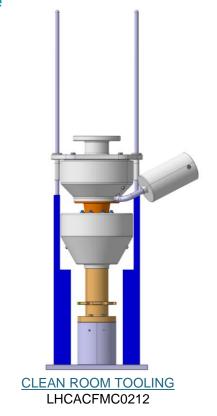






**Removing FPC from test box pipe** 

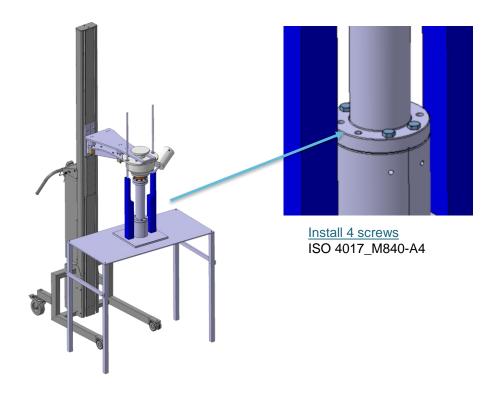








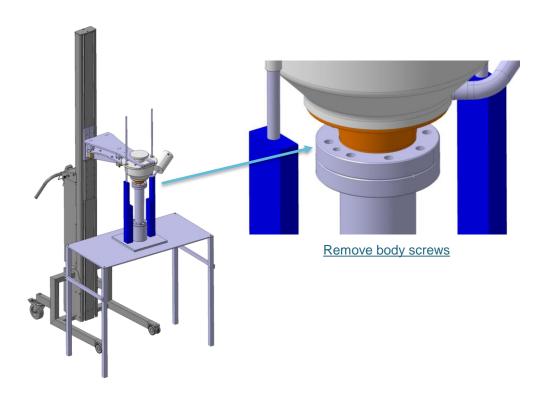
**Removing FPC from test box pipe** 







**Removing FPC from test box pipe** 







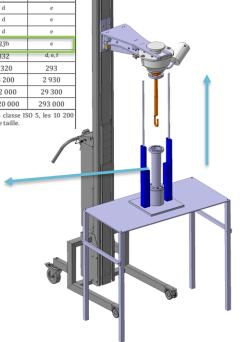
#### Removing FPC from test box pipe

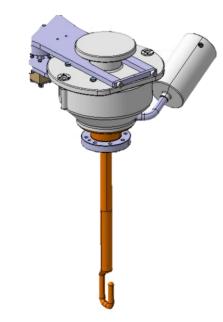
Tableau 1 — Classes ISO de la propreté particulaire de l'air

Numéro de classe ISO (N)	Concentrations maximales admissibles (particules/m³) en particules de taille égale ou supérieure à celles données ci-dessousa					
	0,1 μm	0,2 μm	0,3 μm	0,5 μm	1 μm	5 μm
1	10b	d	d	d	d	e
2	100	24b	10 <sup>b</sup>	d	d	e
3	1 000	237	102	35b	d	e
4	10 000	2 370	1 020	352	<i>83</i> b	e
5	100 000	23 700	10 200	3 520	832	d, e, f
6	1 000 000	237 000	102 000	35 200	8 320	293
7	с	с	с	352 000	83 200	2 930
8	с	с	с	3 520 000	832 000	29 300
9g	с	с	с	35 200 000	8 320 000	293 000

a Toutes les concentrations données dans le tableau sont cumulées. Par exemple, pour la classe ISO 5, les 10 200 particules indiquées à 0,3 μm incluent toutes les particules de tailles égales ou supérieures à cette taille.

Remove false outer pipe



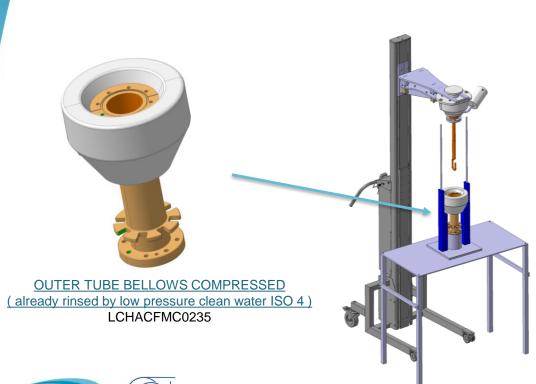


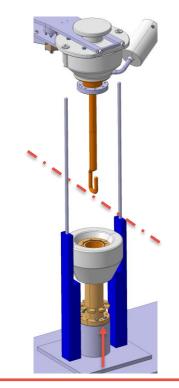
Clean antenna with nitrogen according to ISO 4





**Assembly FPC with outer pipe** 

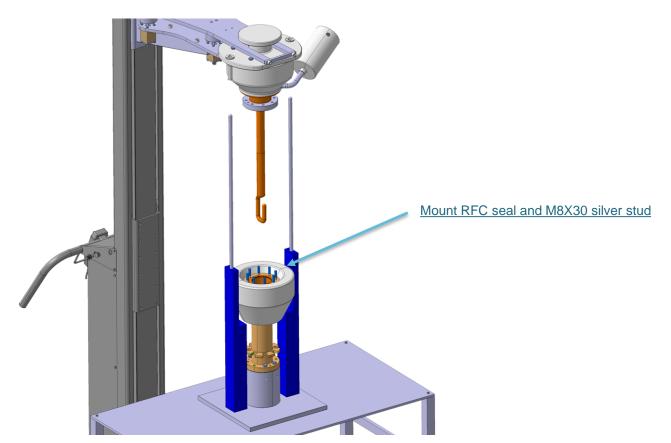




Alignment M8 outer tube on support.

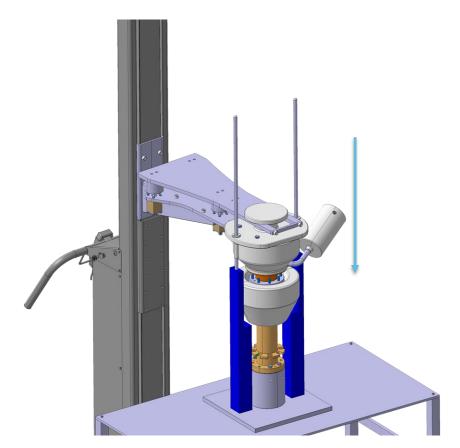






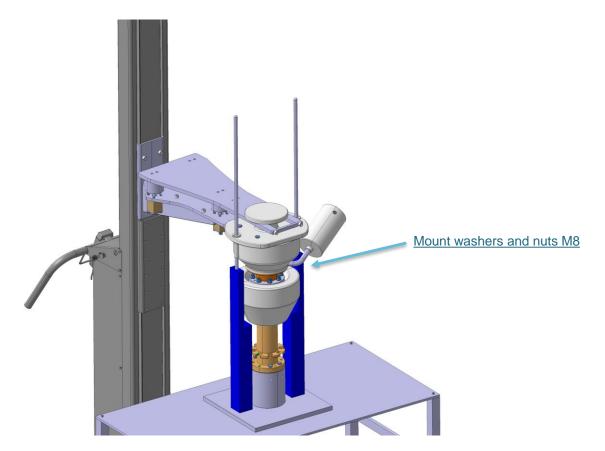






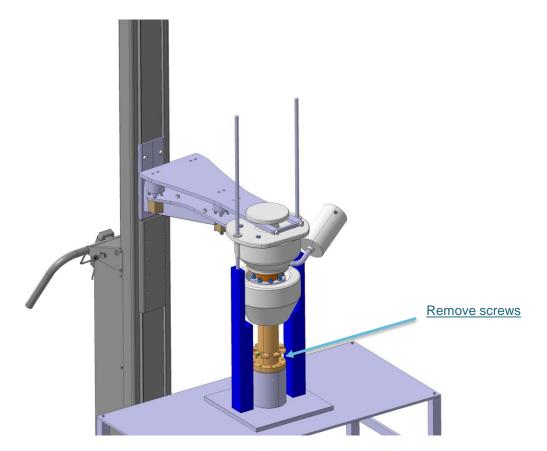






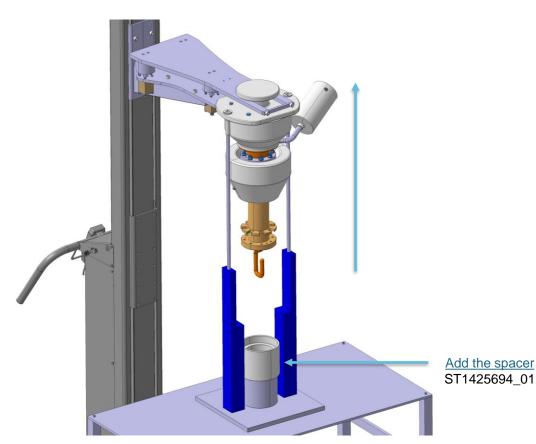






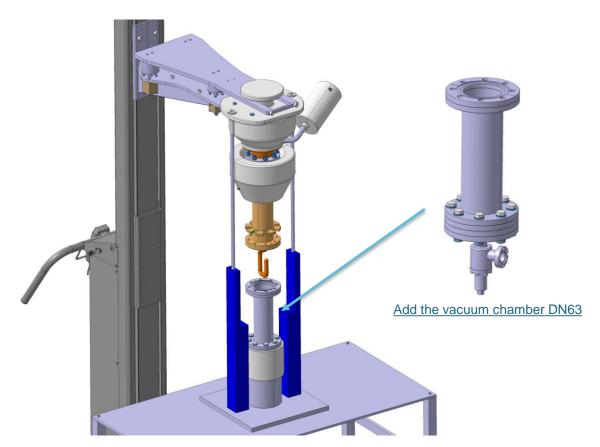






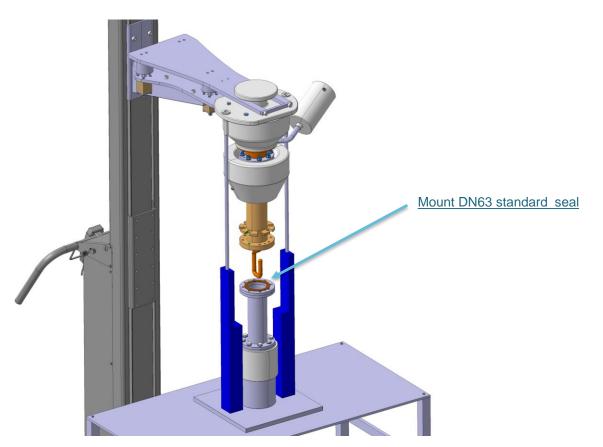






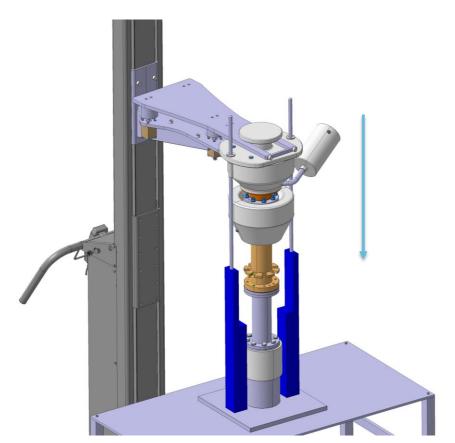






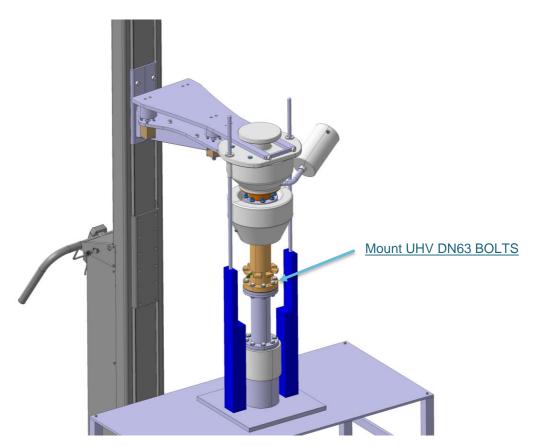
















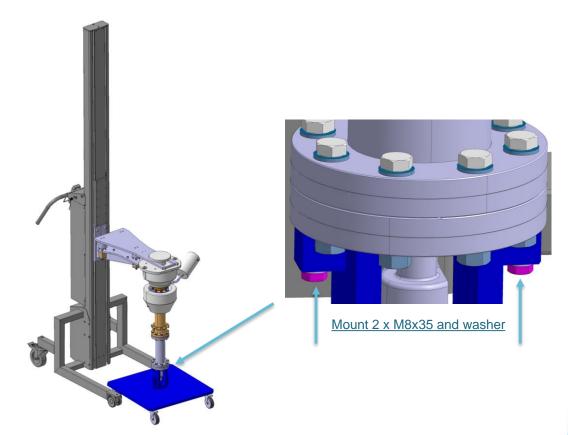
**Assembly FPC with trolley** 







**Assembly FPC with trolley** 







**Assembly FPC with vacuum chamber** 

Ready for helium leak test inside clean room







