Mechanical stages and motor-controller/drivers as follows:

1) Linear stage, 150 mm travel, stepper motor driven, vacuum compatible to 10^{-6} torr. Overall accuracy of better than 10 micron. Width less than or equal to 105 mm. Stage height less than or equal to 32 mm. Load capacity at least 100 Newtons. Newport model UTS150PPV6, or equivalent. 2 required.

2) Motor controller / driver (3 axis) capable of operating the requested stages. Must have USB remote interface capability and front panel control. Newport model ESP301-3G, or equivalent. 1 required.

3) Feedthrough on a 4.5 in. conflate flange. 1X15 pin X2 connectors on a 4.5 in. CF flange. ACCU-Glass 15D2-L63, Part # 111007, or equivalent, 1 required.

4) 15 Pin Kapton cable, female, PEEK connectors ,ACCU-Glass Model # KAP-R15-192SC or equivalent., 19 in, 2 required.