

Specifications for linear stage, rotation stages and motor-controller/driver

- 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) Rotation stage, 160 mm diameter, stepper motor driven, high torque, high load capacity, vacuum compatible to 10^{-6} torr. Travel range of 360 degree, encoder feedback to 0.001 degree, and typical absolute accuracy of +/- 0.0035 degree. Load capacity of at least 400 Newtons. Newport model RV160PEV6, or equivalent.
- 3) 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.