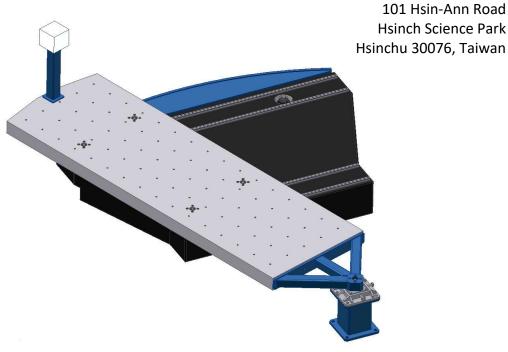
## **Rotational Platform for NSRRC**



Customer: NSRRC





The rotational platform was designed for use at Spring8 to allow for the rotation of the beamline components following a diamond monochromator to maintain system alignment over the range of beam energies. A 5-phase stepper motor drives the platform with an effective open loop resolution of .002 degrees through a chain drive. A rotary encoder can be used both as a digital readout of the position and to close the positioning loop for a system accuracy of up to .0005 degrees. The machine base is composed of polymer concrete with mounting surfaces ground to  $\pm$ 00 m and combined with high precision crossed linear recirculating bearing rails to give the total system straightness of trajectory of  $\pm$ 0 m over the 36-degree arc.



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