

## **FACET-II Magnet Fiducialization Report CHICANE DIPOLE**



Inspector : K. Caban  
Engineer :C. EMMA  
Drawing No. : 731-30822-10 Rev. 2  
Barcode # : 4595  
Mfg. S/N : 30822-4

## Coordinate System Setup

### Spatial Alignment

Constructed using the Midplane of Upper (+Y) and Lower (-Y) Pole with the Midplane of the 2 Poles sets Y Zero and the Y+ Direction points towards the Tooling Balls/Terminal Strip.

### Planar Alignment

Constructed using the Upstream (-Z) and Downstream (+Z) Ends of the poles. The Midplane from both ends sets Z Zero and +Z points towards TB 3/4 Side.

### Coordinate Origins

X Origin - Symmetry Plane between side poles planes (planes parallel to the Coils)

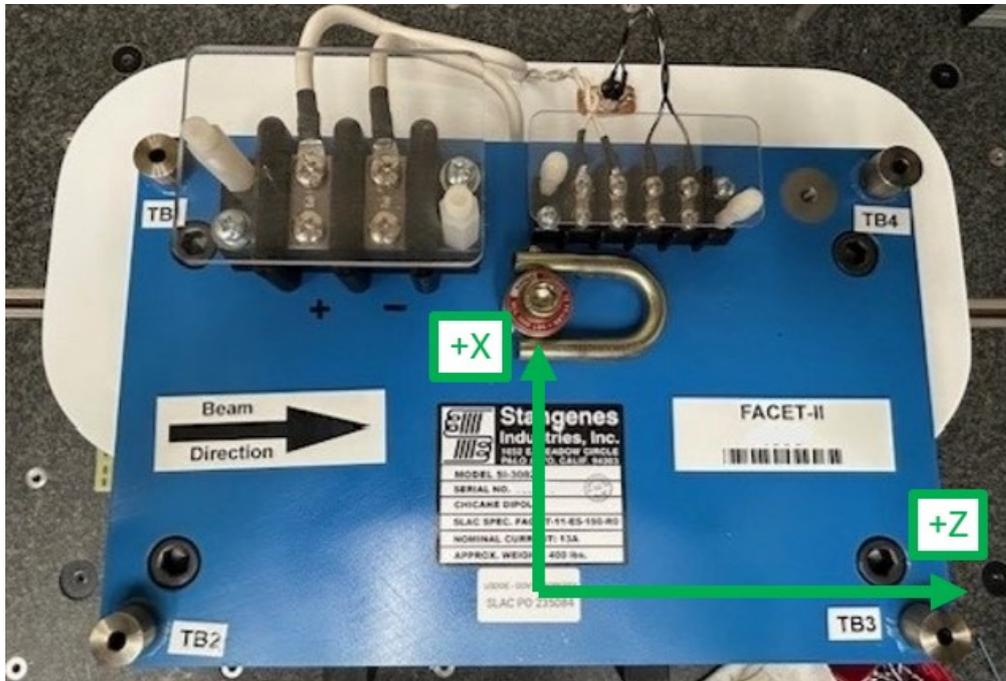
Y Origin - Symmetry Plane between the Poles (Nominal Gap not specified on print)

Z Origin - Symmetry plane between Up Stream and Down Stream end surfaces

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## Tooling Ball Locations



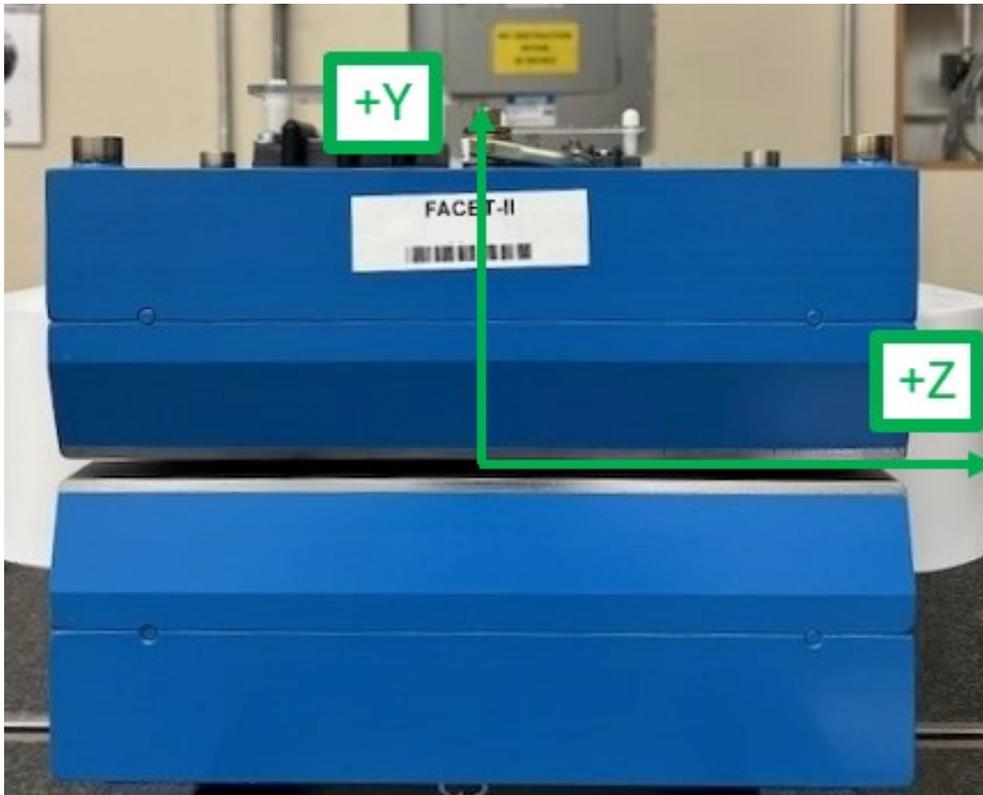
Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	6.7162	6.1940	-5.9448
TB 2	-0.5199	6.1929	-5.9412
TB 3	-0.5022	6.1926	5.9505
TB 4	6.7318	6.1946	5.9343
TB A	6.7167	5.5065	-5.9447
TB B	-0.5187	5.5054	-5.9401
TB C	-0.5016	5.5051	5.9492
TB D	6.7312	5.5071	5.9358

Tooling Ball Locations (1-4) are 1 inch above Tooling Ball Plane  
 Tooling Ball Locations (A-D) are 5/16 inch above Tooling Ball Plane  
 Dimensions in Inch

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## Pole Gap Measurements, Flatness & Parallelism



	-Y Pole Fltns	+Y Pole Fltns	Pole Parallel	Avg. Gap	Min. Gap	Max. Gap
POLE DATA	0.0013	0.0009	0.0016	0.3104	0.3092	0.3120

Dimensions in Inch

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