

FACET-II Magnet Fiducialization Report CHICANE DIPOLE



Inspector : K. Caban
Engineer :C. EMMA
Drawing No. : 731-30822-10 Rev. 2
Barcode # : 4596
Mfg. S/N : 30822-2

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)

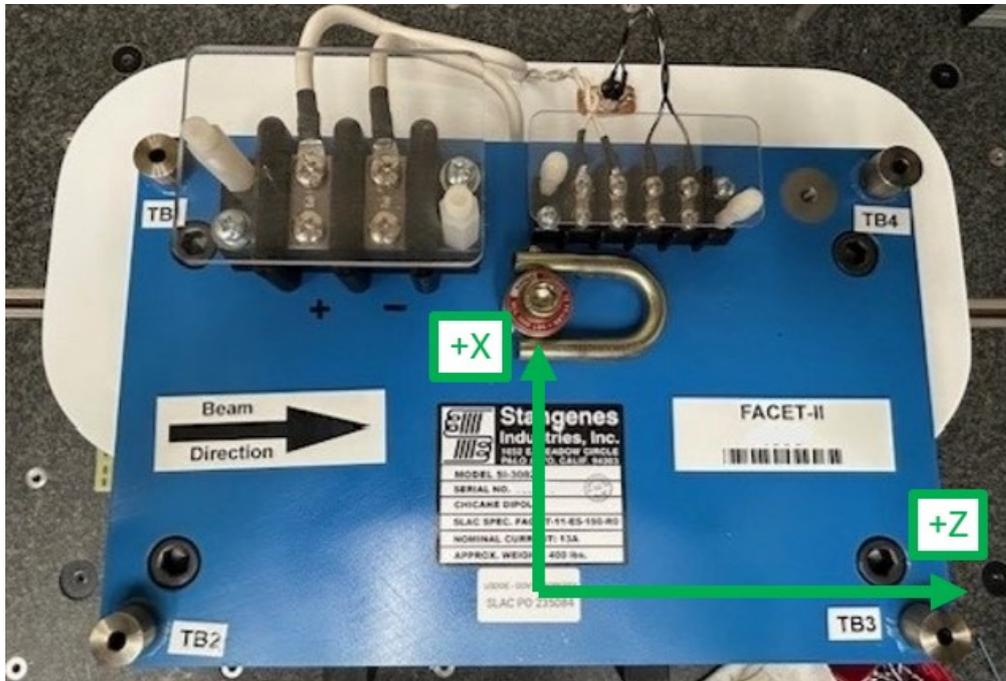
Y Origin - Symmetry Plane between the Poles (Nominal Gap not specified on print)

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

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Tooling Ball Locations



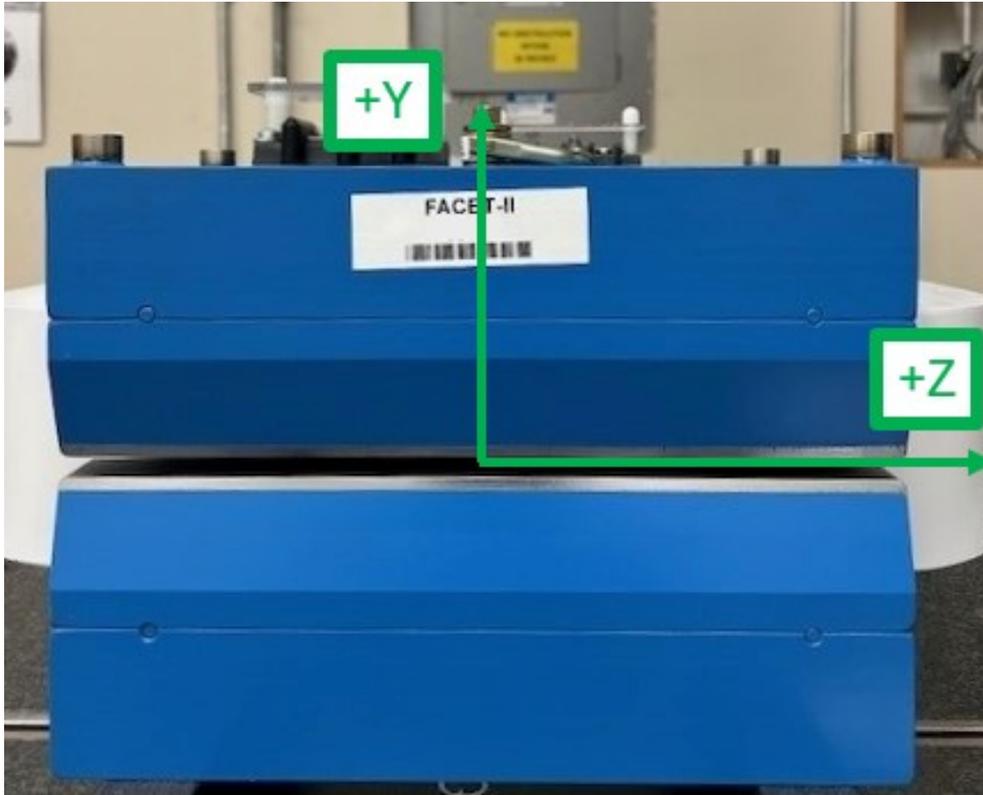
Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	6.7258	6.1942	-5.9390
TB 2	-0.4881	6.1934	-5.9451
TB 3	-0.4997	6.1942	5.9429
TB 4	6.7358	6.1940	5.9431
TB A	6.7283	5.5067	-5.9388
TB B	-0.4920	5.5059	-5.9431
TB C	-0.4997	5.5067	5.9424
TB D	6.7346	5.5065	5.9430

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	0.0012	0.0006	0.0029	0.312	0.3107	0.3141

Dimensions in Inch

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