

FACET-II Magnet Fiducialization Report CHICANE DIPOLE



Inspector : K. Caban
Engineer :C. EMMA
Drawing No. : 731-30822-10 Rev. 2
Barcode # : 4597
Mfg. S/N : 30822-1

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)

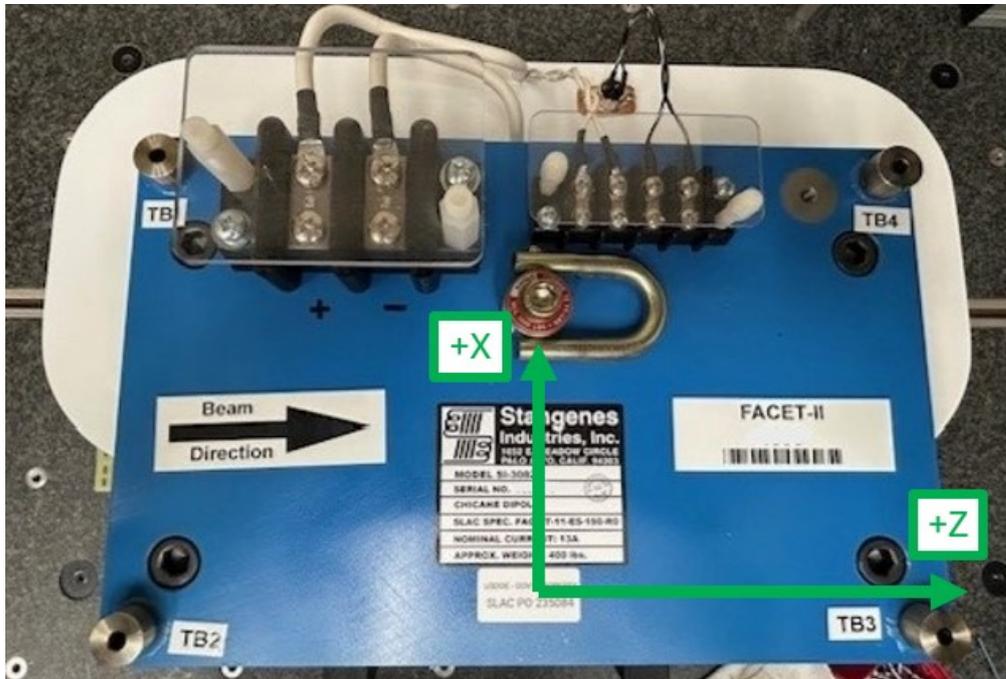
Y Origin - Symmetry Plane between the Poles (Nominal Gap not specified on print)

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

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Tooling Ball Locations



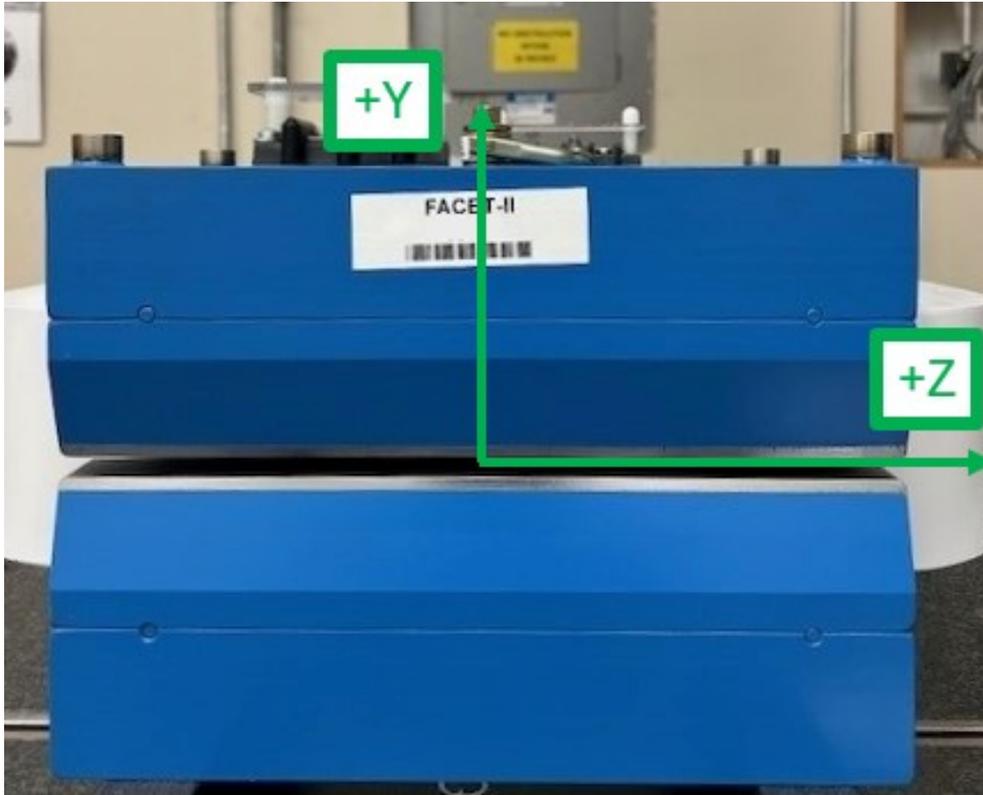
Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	6.7338	6.1935	-5.9366
TB 2	-0.5006	6.1922	-5.9344
TB 3	-0.5022	6.1924	5.9455
TB 4	6.7346	6.1941	5.9488
TB A	6.7355	5.5060	-5.9349
TB B	-0.4984	5.5047	-5.9345
TB C	-0.5017	5.5049	5.9464
TB D	6.7339	5.5066	5.9494

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	0.0018	0.0005	0.0021	0.3118	0.3105	0.3138

Dimensions in Inch

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