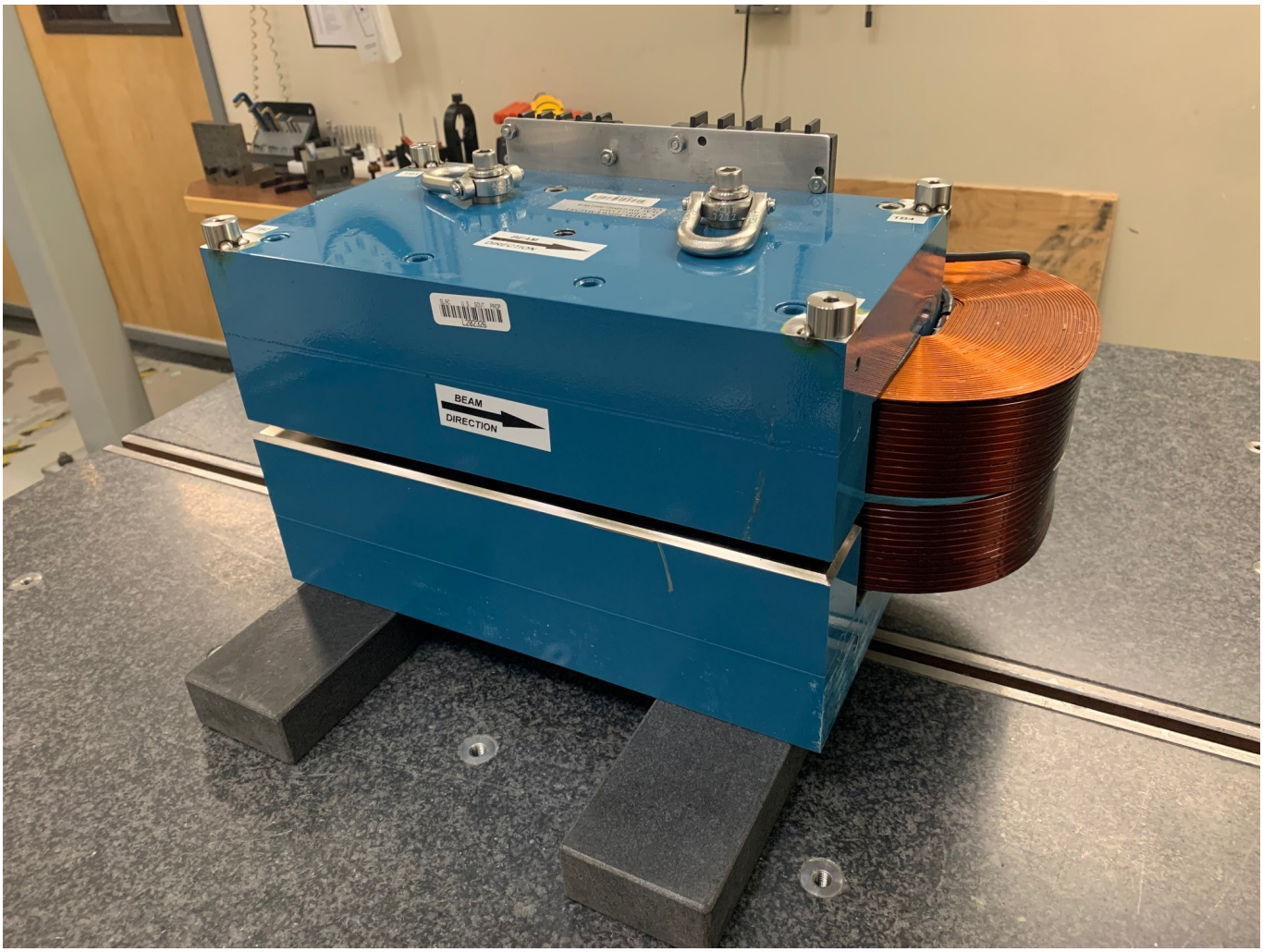
CBXFEL Magnet Fiducialization Report
C-MAGNET DIPOLE ASSEMBLY



Inspector : K. Caban
Engineer :T. TAN
Drawing No. : DSG-000014858 R00
Barcode # : 2322
Mfg. S/N : 007

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 (7mm/0.2756" Gap Symmetry)

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

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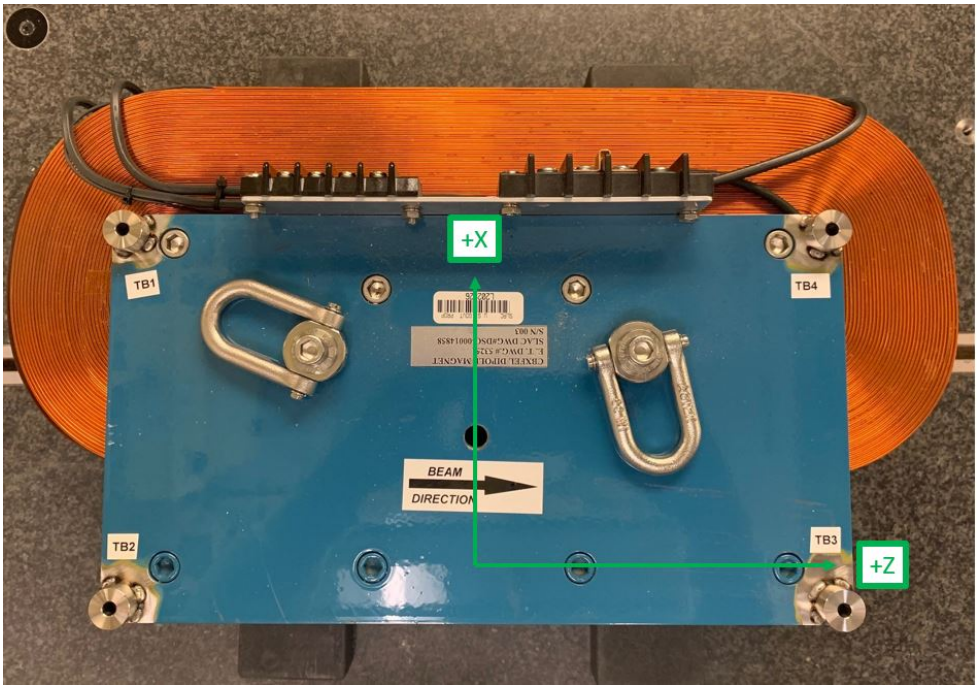
Tooling Ball Locations



Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	6.2939	5.8840	-6.6146
TB 2	-0.6131	5.8868	-6.6057
TB 3	-0.6144	5.8880	6.6285
TB 4	6.2999	5.8878	6.6249
TB A	6.2965	5.1965	-6.6156
TB B	-0.6144	5.1993	-6.6104
TB C	-0.6153	5.2005	6.6288
TB D	6.3004	5.2003	6.6256

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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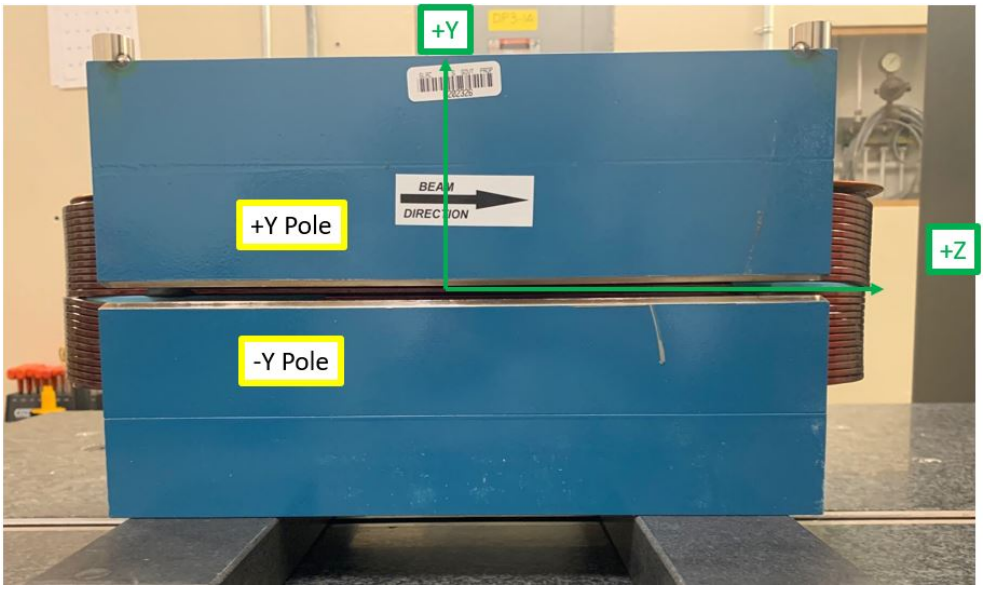
Pole Gap Measurements, Flatness & Parallelism



	-Y Pole Fltns	+Y Pole Fltns	Pole Parallel	Avg. Gap	Min. Gap	Max. Gap
POLE DATA	0.0002	0.0001	0.0003	0.2756	0.2753	0.2757

Dimensions in Inch

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