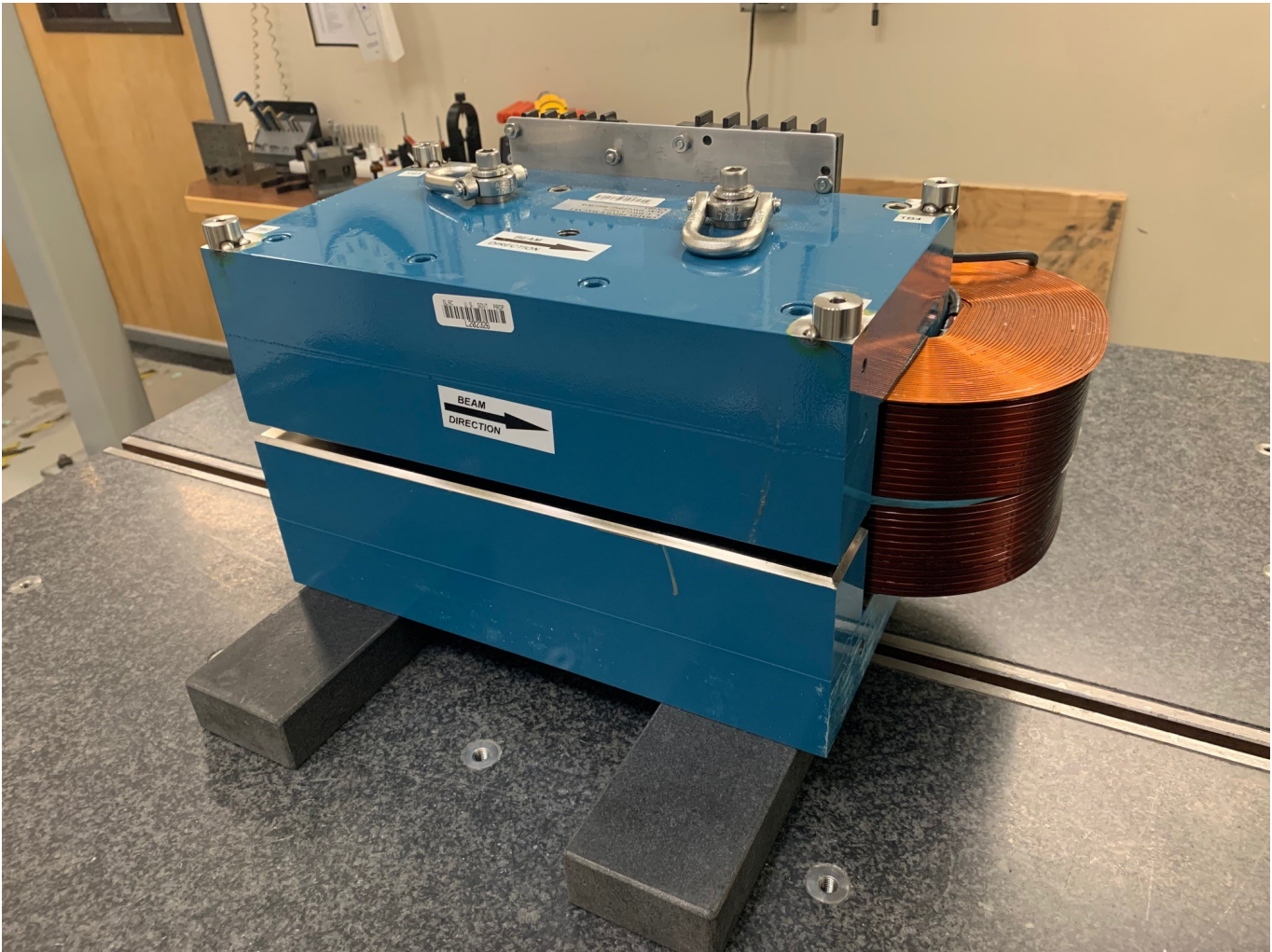


## **CBXFEL Magnet Fiducialization Report C-MAGNET DIPOLE ASSEMBLY**



Inspector : K. Caban  
Engineer :T. TAN  
Drawing No. : DSG-000014858 R00  
Barcode # : 2319  
Mfg. S/N : 004

## 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)

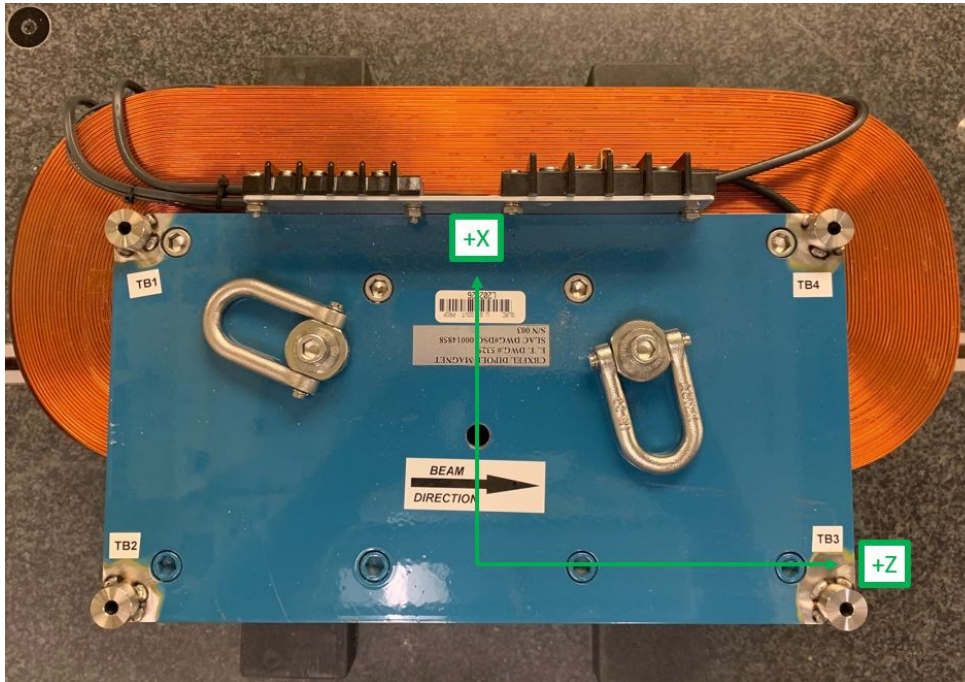
Y Origin - Symmetry Plane between the Poles (7mm/0.2756" Gap Symmetry)

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

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## Tooling Ball Locations



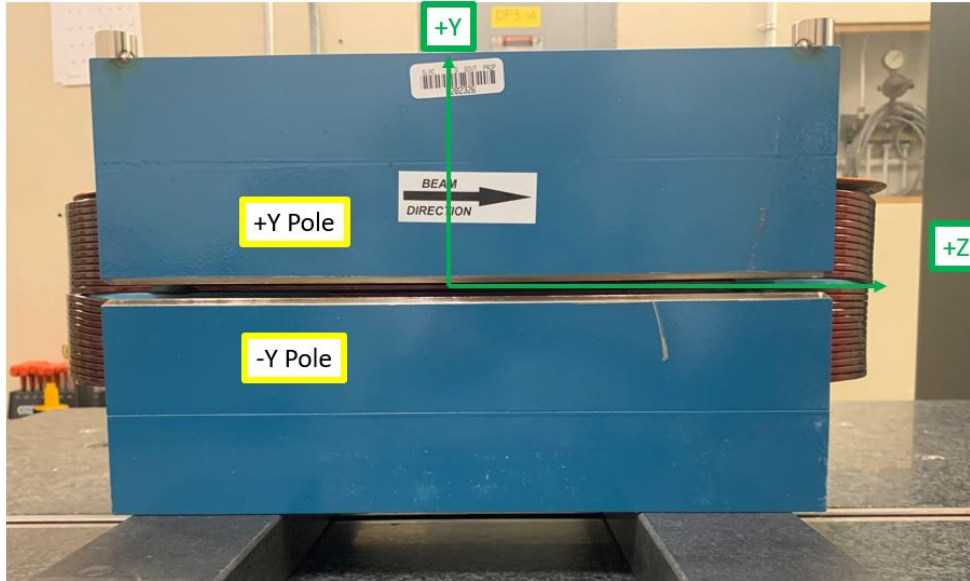
Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	6.2867	5.8873	-6.6127
TB 2	-0.6246	5.8849	-6.6163
TB 3	-0.6128	5.8871	6.6225
TB 4	6.2995	5.8869	6.6196
TB A	6.2920	5.1998	-6.6164
TB B	-0.6236	5.1974	-6.6181
TB C	-0.6158	5.1997	6.6246
TB D	6.2992	5.1995	6.6218

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	0.0003	0.0001	0.0004	0.2753	0.2748	0.2755

Dimensions in Inch

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**MFG S/N: 004**