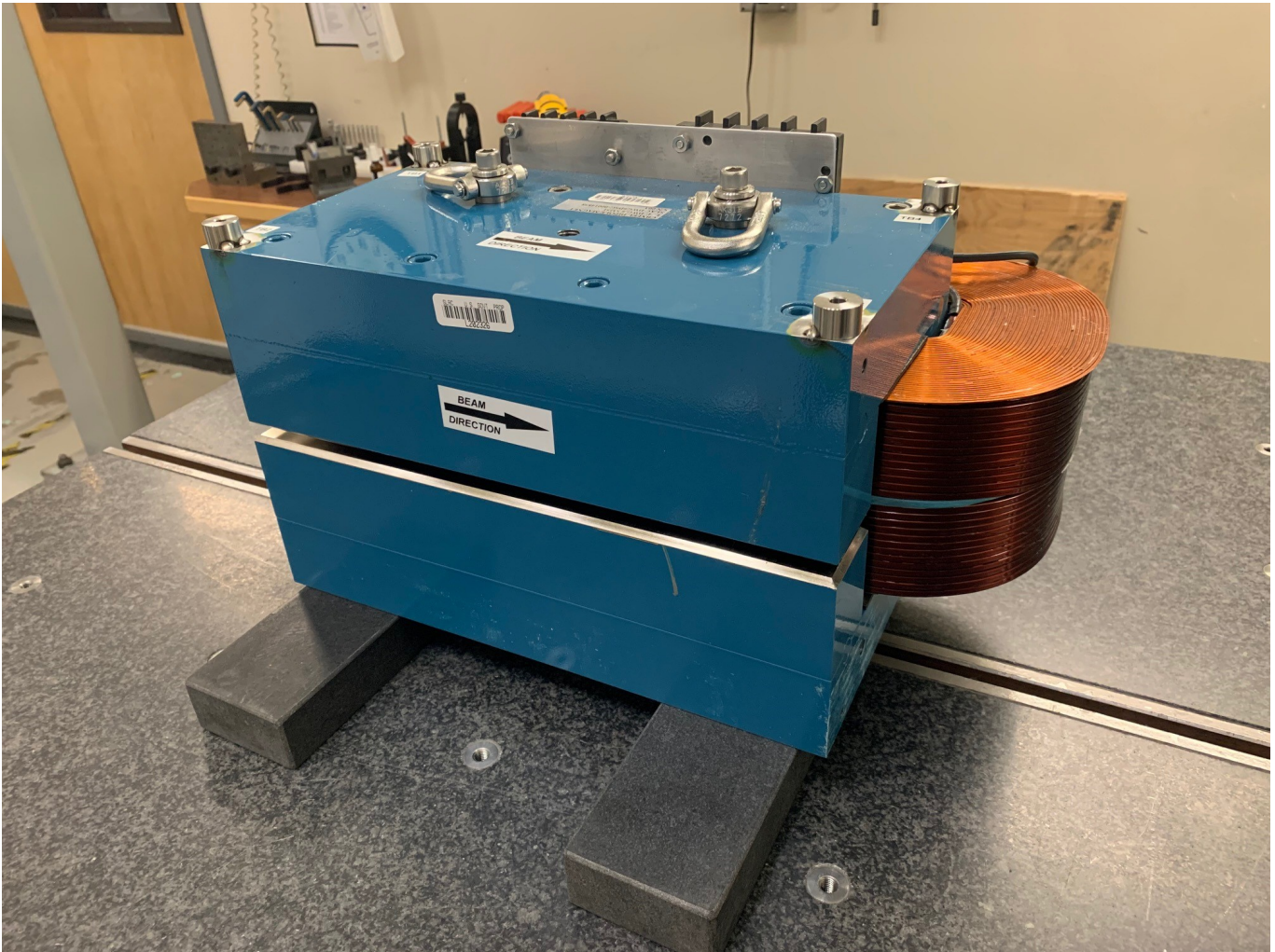


## **CBXFEL Magnet Fiducialization Report C-MAGNET DIPOLE ASSEMBLY - 7mm Gap**



Inspector : K. Caban  
Engineer :T. TAN  
Drawing No. : DSG-000014858 R00  
Barcode # : 2326  
Mfg. S/N : 003

## 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)

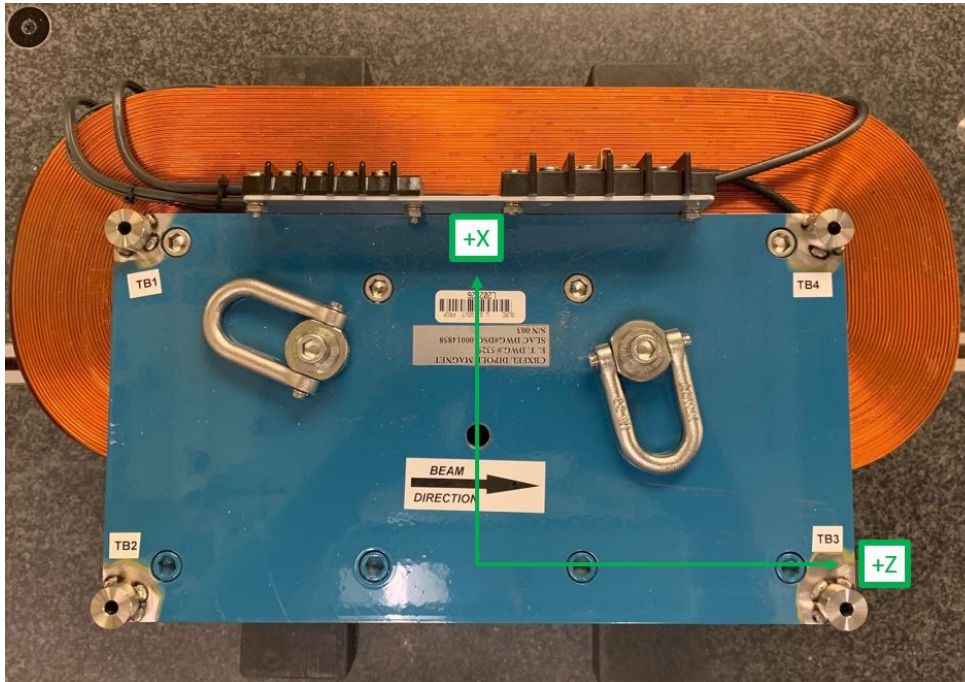
Y Origin - Symmetry Plane between the Poles (7mm/0.2756" Gap Symmetry)

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

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## Tooling Ball Locations



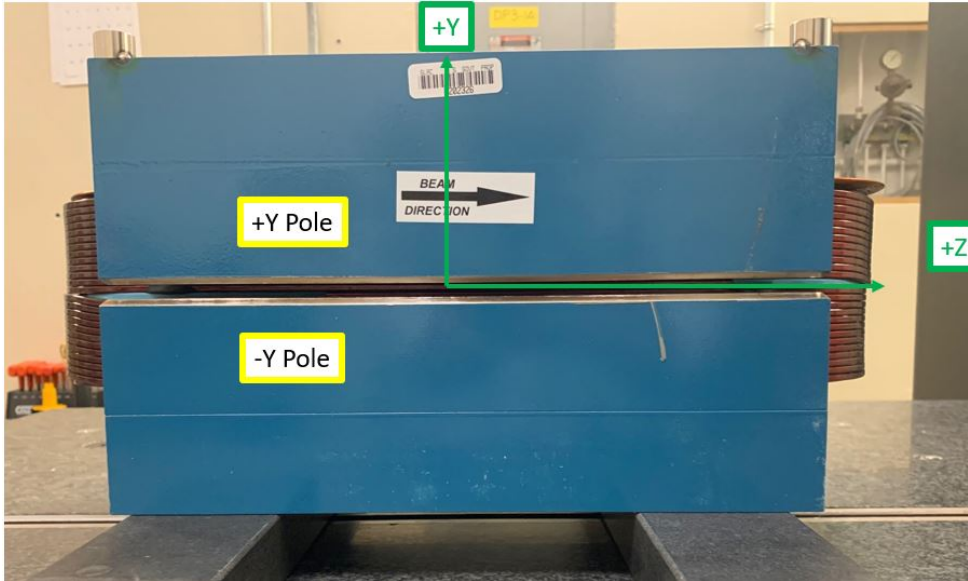
Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	6.2926	5.8878	-6.6188
TB 2	-0.6206	5.8882	-6.6133
TB 3	-0.6069	5.8866	6.6261
TB 4	6.3025	5.8870	6.6261
TB A	6.2939	5.2003	-6.6202
TB B	-0.6211	5.2007	-6.6144
TB C	-0.6092	5.1991	6.6283
TB D	6.3022	5.1996	6.6268

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	0.0002	0.0004	0.2753	0.2750	0.2756

Dimensions in Inch

**Barcode # : 2326**

**MFG S/N: 003**