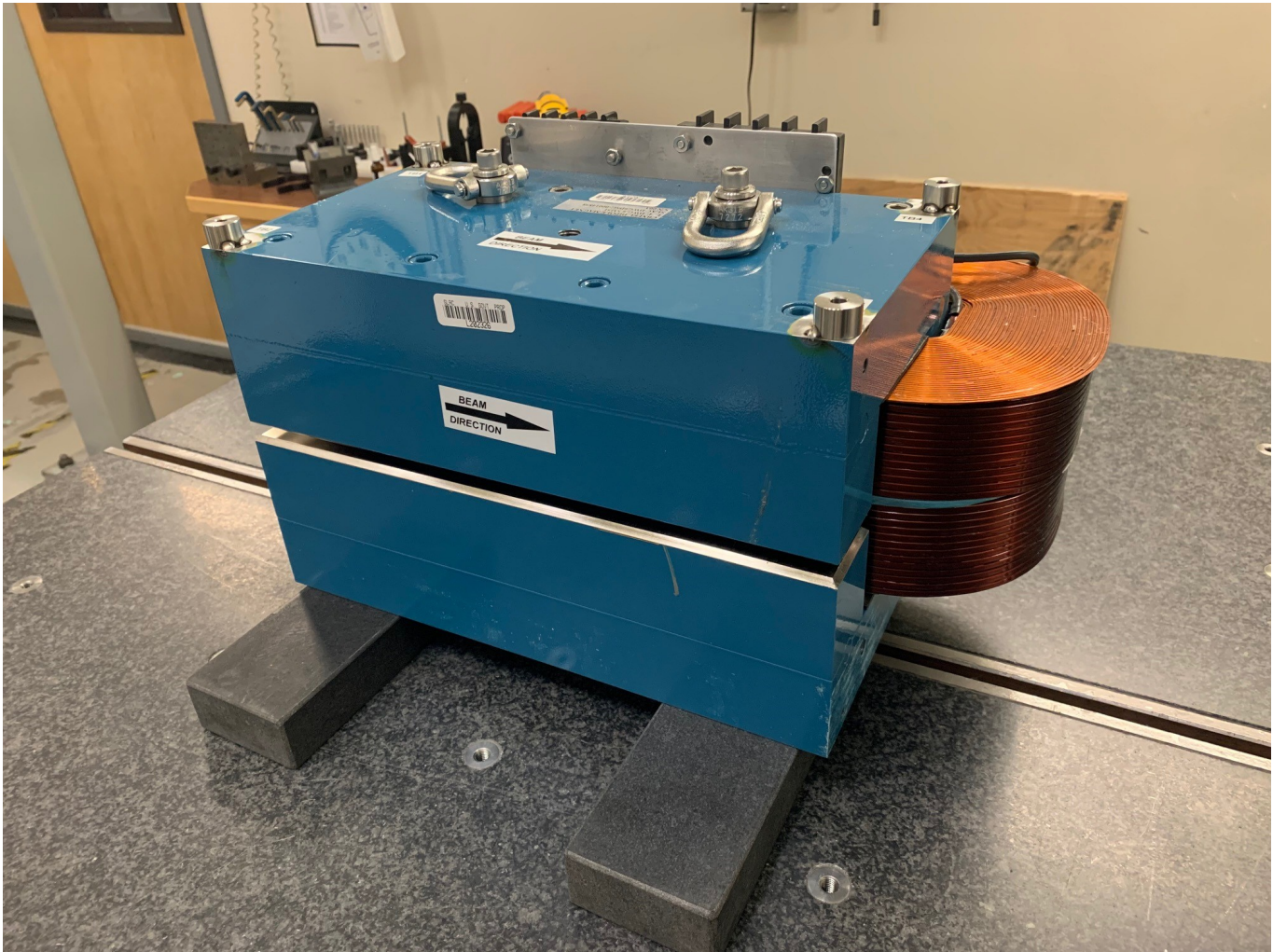


## **CBXFEL Magnet Fiducialization Report C-MAGNET DIPOLE ASSEMBLY**



Inspector : K. Caban  
Engineer :T. TAN  
Drawing No. : DSG-000014858 R00  
Barcode # : 2320  
Mfg. S/N : 005

## **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)

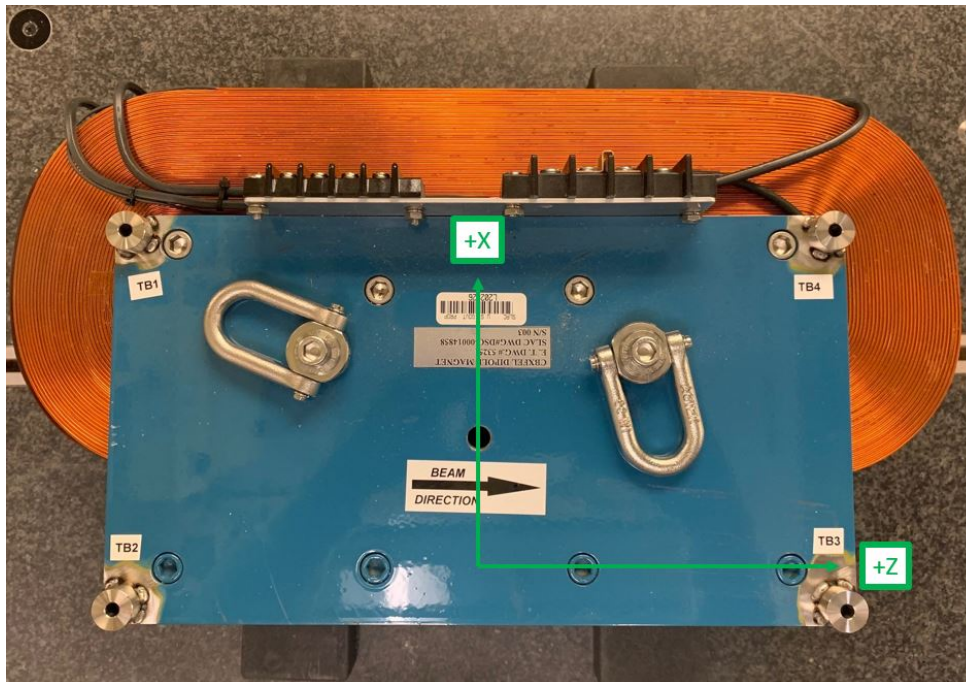
Y Origin - Symmetry Plane between the Poles (7mm/0.2756" Gap Symmetry)

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

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## Tooling Ball Locations



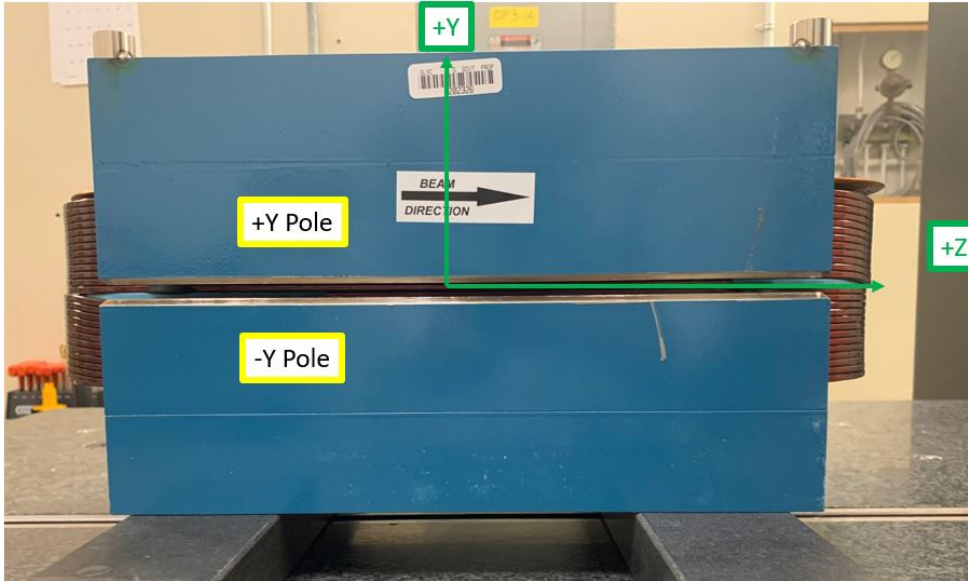
Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	6.2980	5.8854	-6.6231
TB 2	-0.6153	5.8868	-6.6155
TB 3	-0.6125	5.8906	6.6215
TB 4	6.2972	5.8901	6.6255
TB A	6.2988	5.1979	-6.6237
TB B	-0.6160	5.1993	-6.6174
TB C	-0.6145	5.2031	6.6234
TB D	6.2989	5.2026	6.6255

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	0.0002	0.0005	0.2755	0.2751	0.2757

Dimensions in Inch

**Barcode # : 2320**

**MFG S/N: 005**