

## **FACET II Magnet Fiducialization Report Injector Laser Heater Chicane 5D3.9 Dipole**



Inspector : K. Caban  
Engineer : C. Hast  
Drawing No. : SA-380-331-12  
Barcode # : 100886  
Mfg. S/N : BCX10451 SN:2316-26124-01

## **Coordinate System Setup**

### **Spatial Alignment**

Symmetry Plane between 2 Pole surfaces

### **Planar Alignment**

Symmetry Plane between the side planes of (2X) Poles

### **Coordinate Origins**

X Origin - Symmetry Plane between poles

Y Origin - Symmetry Plane between the side planes of (2X) Poles

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

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## Tooling Ball Locations



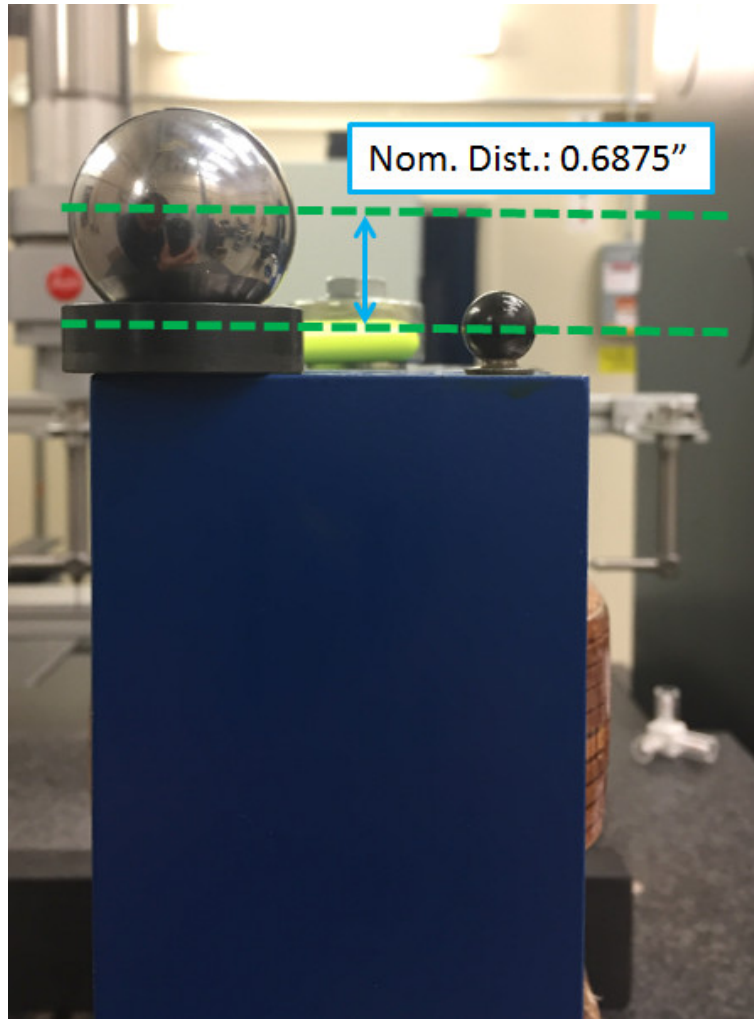
Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	5.1979	6.5144	-1.0657
TB 2	5.1969	6.5146	1.0632
TB 3	-5.1961	6.5153	1.0602
TB 4	-5.1955	6.5142	-1.0657
TB A	5.1986	5.8263	-1.0642
TB B	5.1981	5.8269	1.0614
TB C	-5.1950	5.8272	1.0604
TB D	-5.1950	5.8267	-1.0653

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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## 1" Tooling Ball to 5/16" Tooling Ball Difference



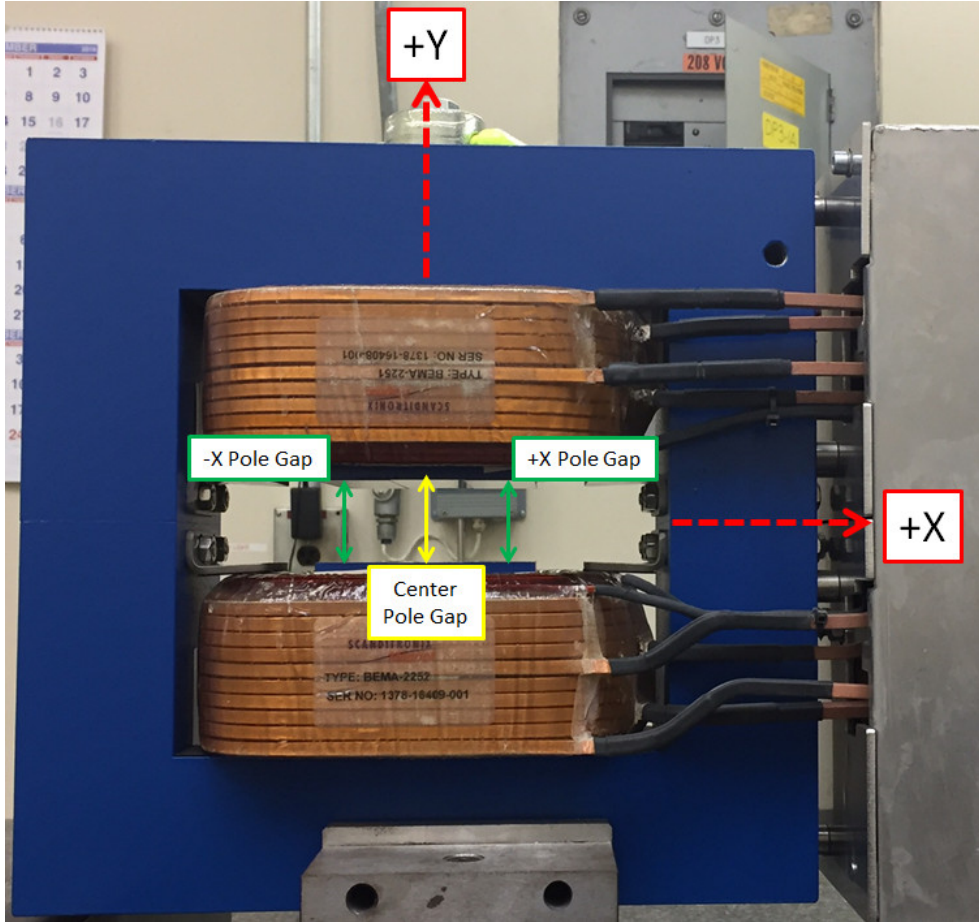
Tooling Ball	Nom Dist.	Actual Dist.	ACT-NOM
TB 1	0.6875 ± 0.001	0.688	0.0005
TB 2	0.6875 ± 0.001	0.6877	0.0002
TB 3	0.6875 ± 0.001	0.6881	0.0006
TB 4	0.6875 ± 0.001	0.6874	-0.0001

Dimensions in Inch

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## Pole Gap Measurements



	U/S -X	U/S +X	D/S -X	D/S +X	U/S CENTER	D/S CENTER
GAP DIST.	1.18085	1.18082	1.18073	1.18084	1.19697	1.19685

Dimensions in Inch

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