

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 # : 100887
Mfg. S/N : BCX10461 SN:2316-26124-02

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



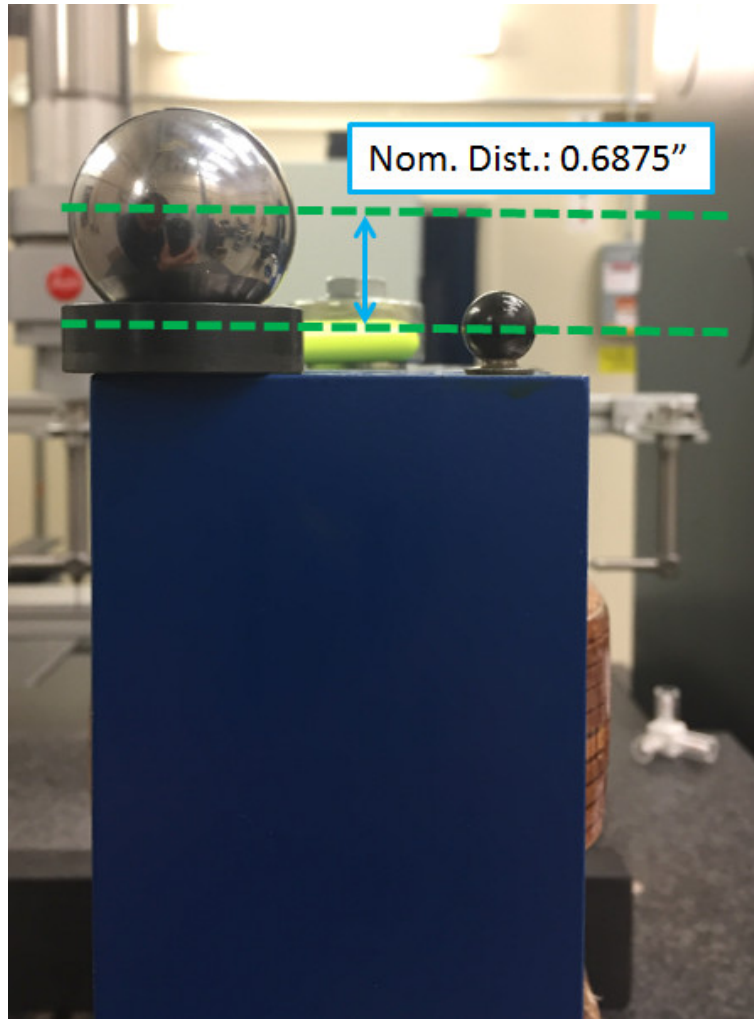
Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	5.1984	6.5157	-1.0640
TB 2	5.1994	6.5158	1.0607
TB 3	-5.1962	6.5148	1.0593
TB 4	-5.1955	6.5150	-1.0664
TB A	5.1980	5.8261	-1.0644
TB B	5.1980	5.8271	1.0616
TB C	-5.1953	5.8273	1.0593
TB D	-5.1948	5.8263	-1.0663

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



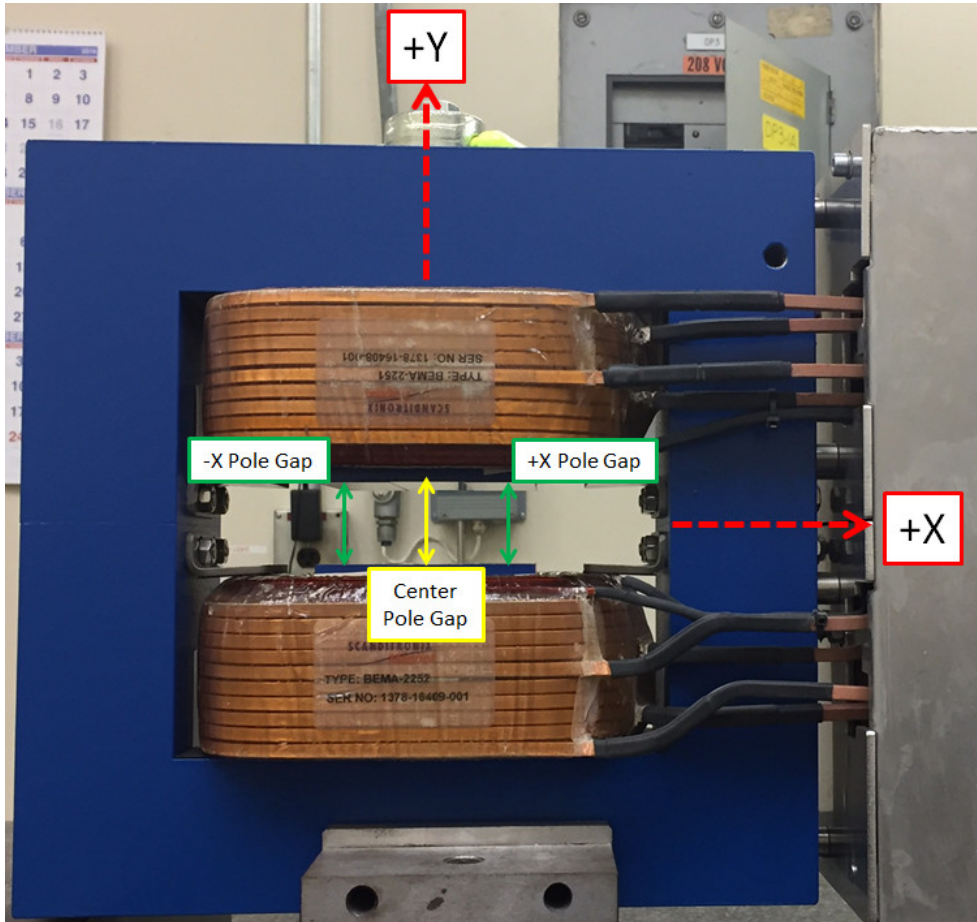
Tooling Ball	Nom Dist.	Actual Dist.	ACT-NOM
TB 1	0.6875 ± 0.001	0.6896	0.0021
TB 2	0.6875 ± 0.001	0.6887	0.0012
TB 3	0.6875 ± 0.001	0.6876	0.0001
TB 4	0.6875 ± 0.001	0.6888	0.0013

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.	1.18019	1.18027	1.18042	1.18041	1.19598	1.19589

Dimensions in Inch

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