

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 # : 100888
Mfg. S/N : BCX10481 SN:2316-26124-04

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



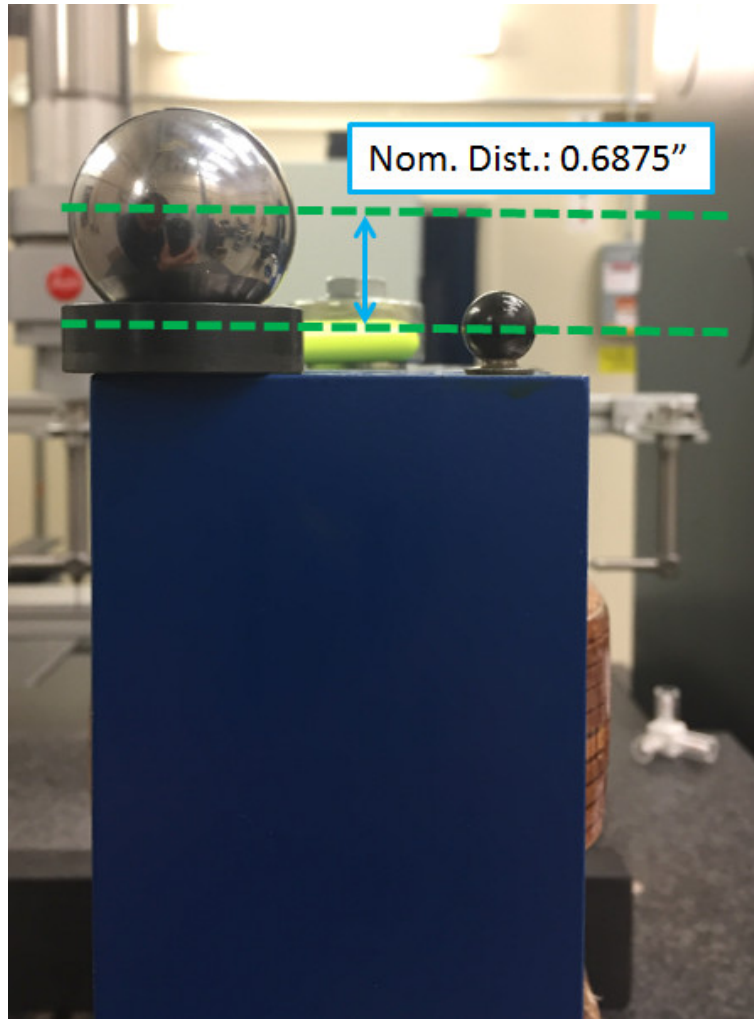
Tooling Ball	X Coord.	Y Coord.	Z Coord.
TB 1	5.1988	6.5150	-1.0652
TB 2	5.1984	6.5157	1.0615
TB 3	-5.1942	6.5176	1.0598
TB 4	-5.1954	6.5134	-1.0672
TB A	5.1984	5.8271	-1.0649
TB B	5.1979	5.8275	1.0610
TB C	-5.1957	5.8266	1.0591
TB D	-5.1954	5.8261	-1.0667

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



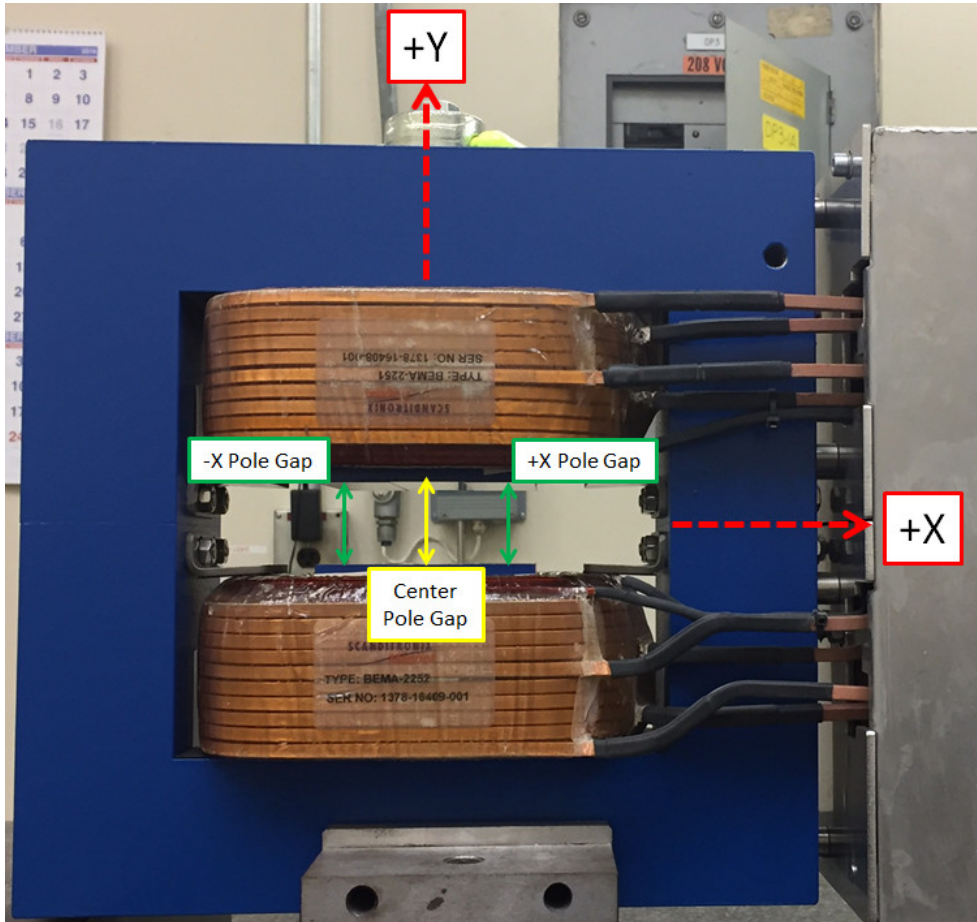
Tooling Ball	Nom Dist.	Actual Dist.	ACT-NOM
TB 1	0.6875 ± 0.001	0.6879	0.0004
TB 2	0.6875 ± 0.001	0.6882	0.0007
TB 3	0.6875 ± 0.001	0.6909	0.0034
TB 4	0.6875 ± 0.001	0.6873	-0.0002

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.	1.18075	1.18061	1.1808	1.18066	1.19648	1.19626

Dimensions in Inch

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