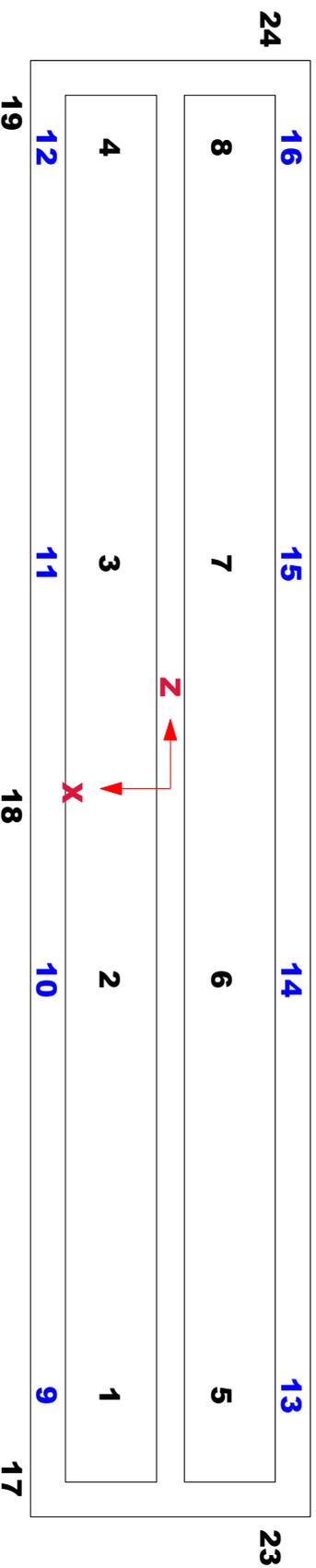


.5in Tooling Ball Center Coordinates

Name	X Corr.	Y Corr.	Z Corr.
TB 9	430.109	-0.048	-1489.497
TB 10	430.167	-0.011	-524.752
TB 11	430.204	-0.018	523.971
TB 12	430.218	0.114	1489.918
TB 13	-430.112	0.503	-1489.052
TB 14	-430.138	0.212	-524.573
TB 15	-430.091	0.123	523.381
TB 16	-430.046	0.235	1488.293

1.5in Tooling Ball Center Coordinates

Name	X Corr.	Y Corr.	Z Corr.
TB 1	98.423	135.094	-1665.823
TB 2	98.770	135.182	-555.921
TB 3	98.597	135.255	555.736
TB 4	98.800	135.241	1665.986
TB 5	-98.687	136.031	-1666.273
TB 6	-98.481	136.149	-556.079
TB 7	-98.582	136.163	555.822
TB 8	-98.603	136.166	1665.476
TB 17	475.184	-228.458	-1582.997
TB 18	474.873	-228.149	85.615
TB 19	474.219	-228.888	1579.565
TB 23	-403.119	-225.881	-1710.823
TB 24	-403.777	-227.469	1706.960



Gridler centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



HGVPU - Fiducialization at 9mm Gap, Tooling Balls

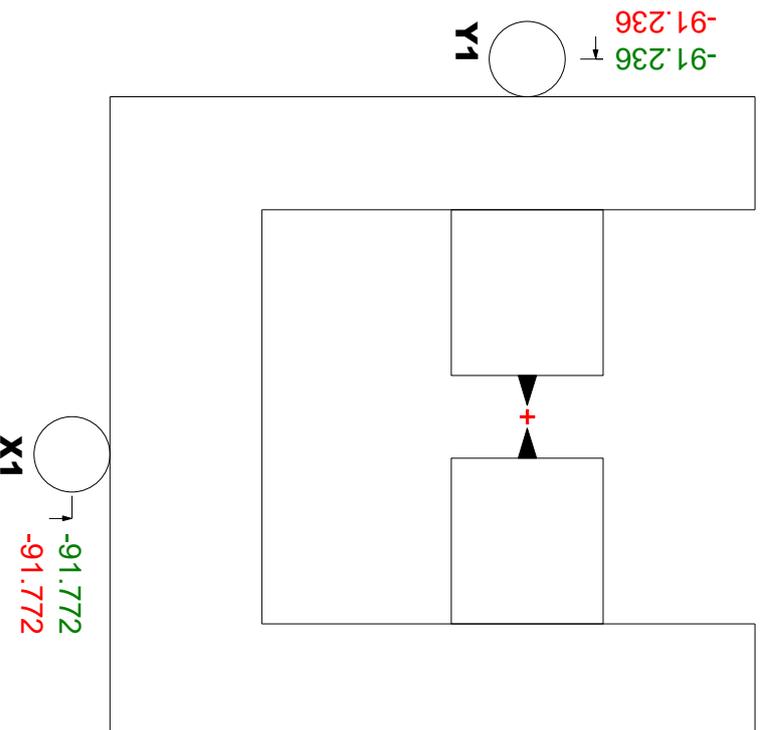
Nominal Gap :	9.000	US Full :	9.000	DS Full :	8.9998
Nom. Taper :	0.000	US Wall Half :	4.5000	DS Wall Half :	4.4994
		US Aisle Half :	4.4992	DS Aisle Half :	4.5003

S/N	: HXU 016
Date	: 10-SEP-2020
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

PM 2

Up Stream

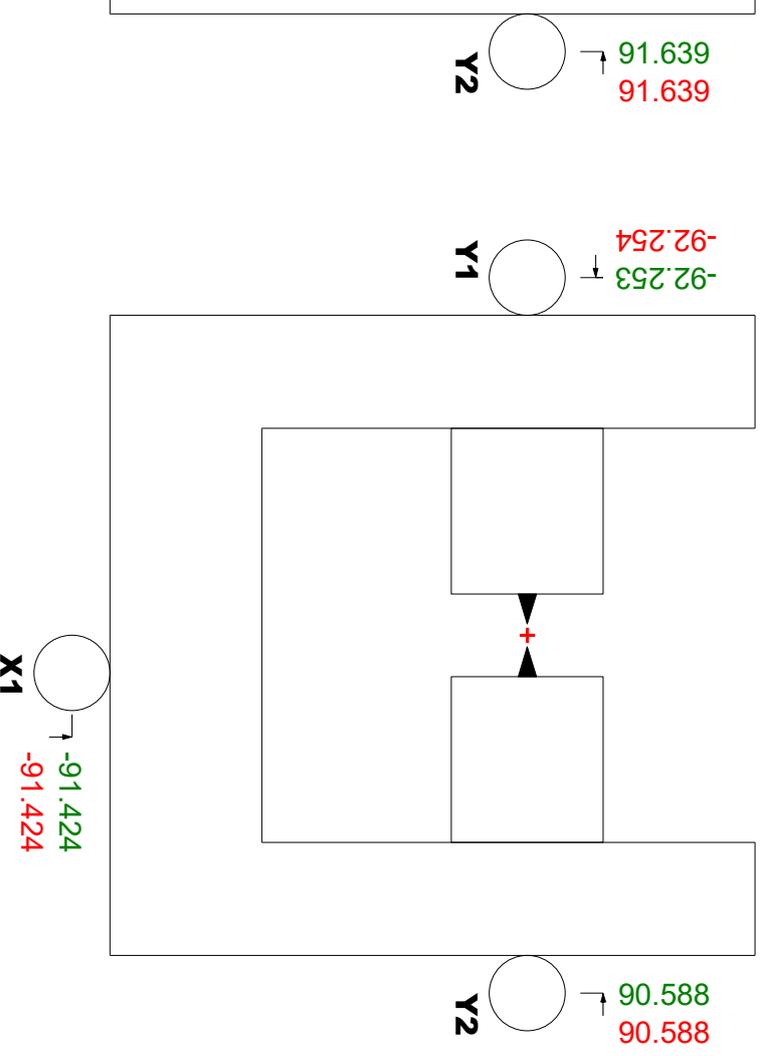
Z Center = -1842.289



PM 3

Down Stream

Z Center = 1842.101



Red values are in Girder Coordinate System, includes Roll component from Girder
Green values are in End Magnet Coordinate System
Girder centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

		<h1>HGVPU - Fiducialization, Pointed End Magnet Values</h1>		S/N : HXU_016	
Nominal Gap : 9.000	US Full : 9.000	DS Full : 8.9998	Date : 10-SEP-2020	Data Set : 0001	Run : FINAL
Nom. Taper : 0.000	US Wall Half : 4.5000	DS Wall Half : 4.4994	US Aisle Half : 4.4992	DS Aisle Half : 4.5003	Cam Pos. : B