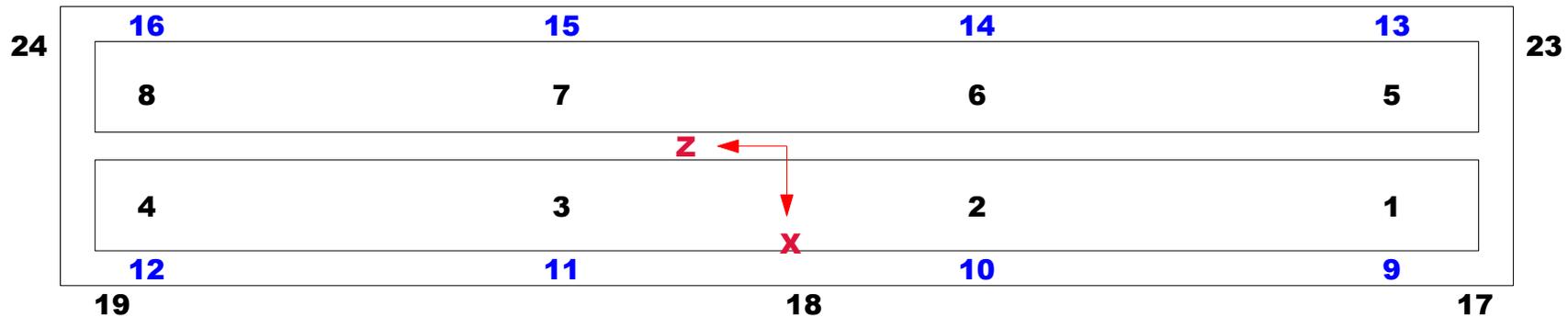


.5in Tooling Ball Center Coordinates

Name	X Corr.	Y Corr.	Z Corr.
TB 9	429.861	0.286	-1489.284
TB 10	429.971	0.412	-523.443
TB 11	429.965	0.334	524.513
TB 12	429.920	0.547	1489.844
TB 13	-429.952	0.055	-1490.039
TB 14	-430.168	0.076	-524.493
TB 15	-430.088	0.000	523.948
TB 16	-429.855	0.479	1489.470

1.5in Tooling Ball Center Coordinates

Name	X Corr.	Y Corr.	Z Corr.
TB 1	98.580	136.147	-1664.990
TB 2	97.640	136.065	-554.939
TB 3	97.405	136.030	556.855
TB 4	98.882	136.003	1666.595
TB 5	-98.547	136.004	-1665.963
TB 6	-99.367	135.978	-556.475
TB 7	-98.931	135.908	556.653
TB 8	-98.801	135.893	1665.757
TB 17	471.597	-228.673	-1579.705
TB 18	472.682	-228.971	86.754
TB 19	472.557	-228.920	1580.538
TB 23	-404.110	-226.160	-1710.262
TB 24	-403.480	-227.482	1705.267



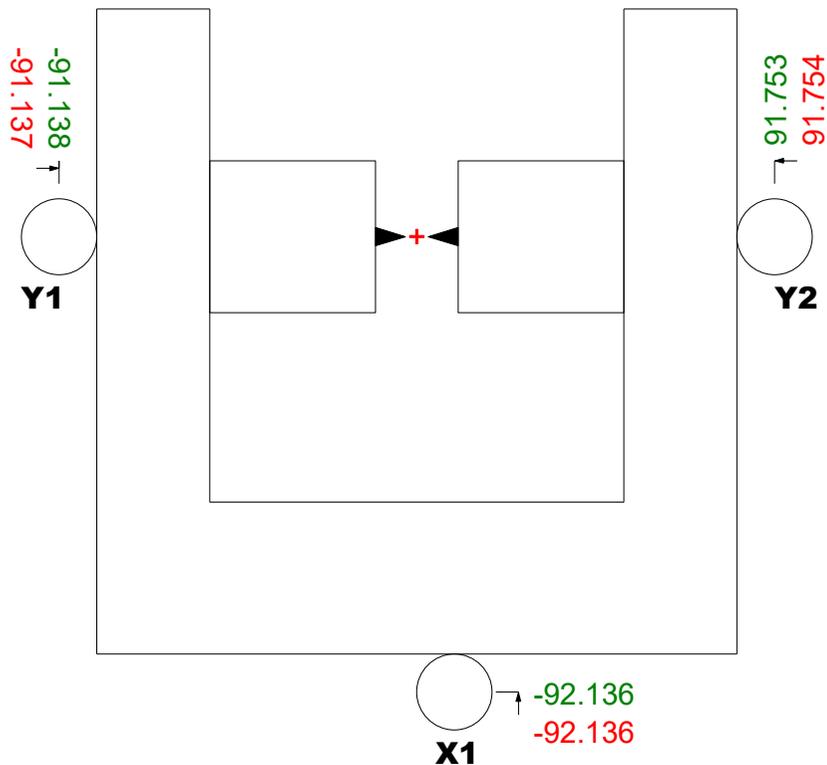
Grider centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians

	HGVPU - Fiducialization at 9mm Gap, Tooling Balls				S/N : HXU_000
					Date : 27-AUG-2021
Nominal Gap :	9.000	US Full :	9.000	DS Full :	8.9997
Nom. Taper :	0.000	US Wall Half :	4.4958	DS Wall Half :	4.5041
		US Aisle Half :	4.4992	DS Aisle Half :	4.4908
					Run : FINAL
					Cam Pos. : B

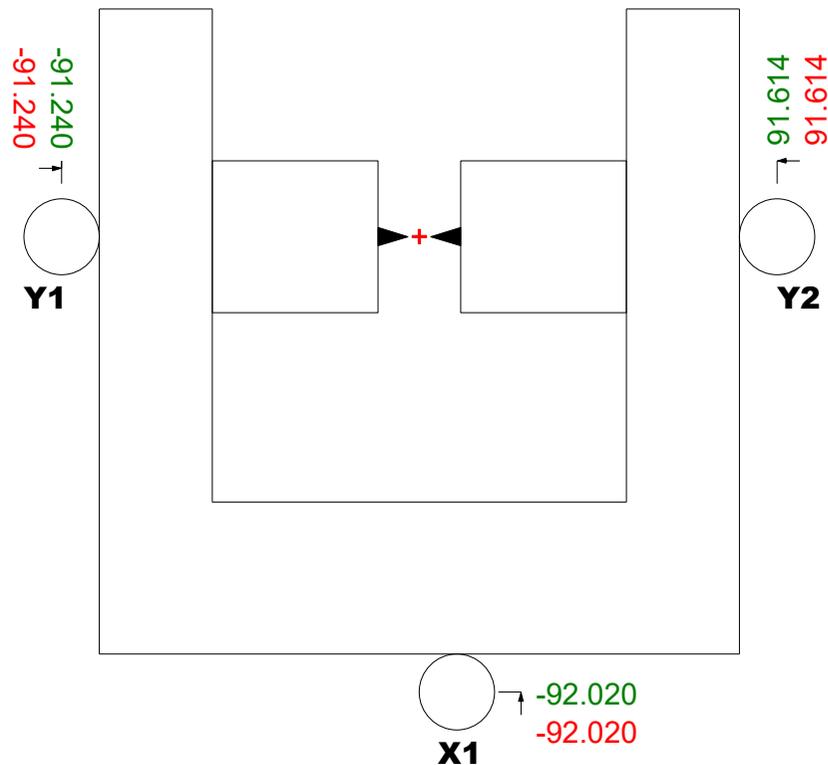
PM 2 Up Stream

Z Center = -1842.235



PM 3 Down Stream

Z Center = 1844.541



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

	HGVPU - Fiducialization, Pointed End Magnet Values				S/N : HXU_000
	Nominal Gap :	9.000	US Full :	9.000	DS Full :
Nom. Taper :	0.000	US Wall Half :	4.4958	DS Wall Half :	4.5041
		US Aisle Half :	4.4992	DS Aisle Half :	4.4908
				Run :	FINAL
				Cam Pos. :	B