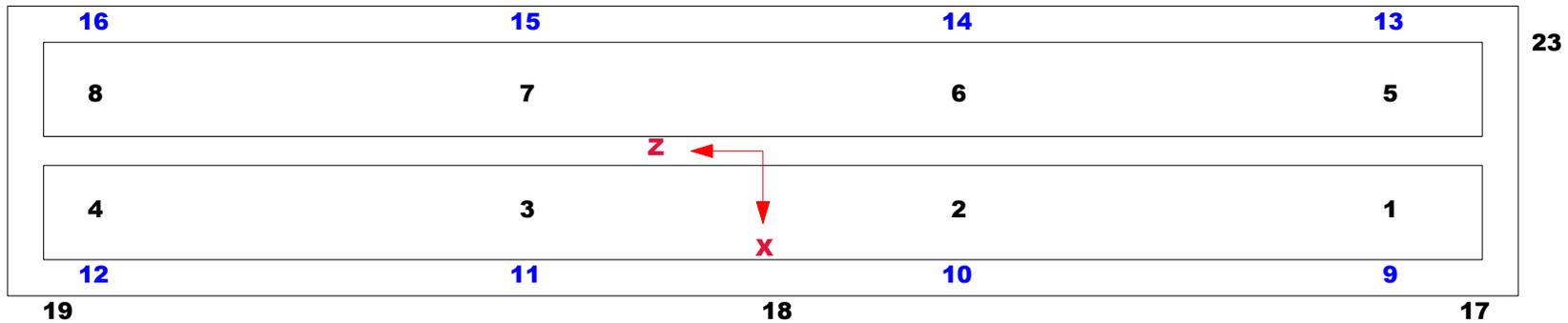


.5in Tooling Ball Center Coordinates

Name	X Corr.	Y Corr.	Z Corr.
TB 9	430.166	-0.283	-1488.818
TB 10	430.026	-0.157	-523.833
TB 11	430.192	-0.098	524.495
TB 12	430.135	-0.074	1489.623
TB 13	-429.844	-0.480	-1489.753
TB 14	-429.912	0.003	-524.101
TB 15	-429.974	-0.260	523.799
TB 16	-429.902	-0.235	1489.415

1.5in Tooling Ball Center Coordinates

Name	X Corr.	Y Corr.	Z Corr.
TB 1	98.504	135.861	-1665.449
TB 2	98.578	135.892	-555.687
TB 3	98.594	135.944	556.303
TB 4	98.416	136.001	1666.049
TB 5	-98.026	135.754	-1666.040
TB 6	-98.297	135.887	-556.229
TB 7	-98.387	135.956	555.850
TB 8	-98.261	136.007	1665.966
TB 17	471.722	-231.201	-1578.827
TB 18	469.383	-230.096	89.561
TB 19	467.934	-230.616	1581.331
TB 23	-405.794	-229.894	-1707.867



Grider centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



HGVPU - Fiducialization at 9mm Gap, Tooling Balls

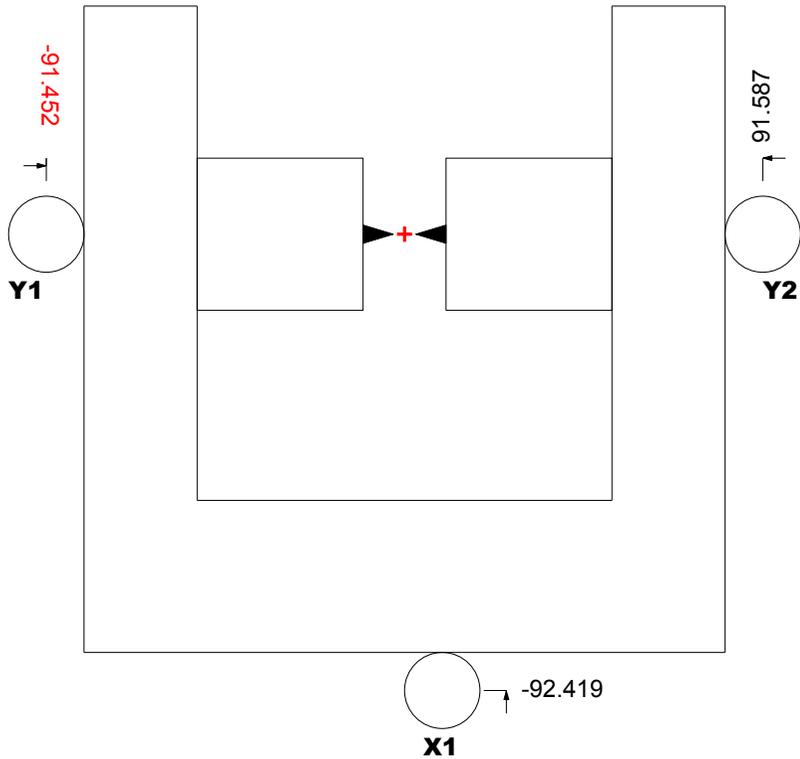
Nominal Gap :	9.000	US Full :	8.989	DS Full :	8.9925
Nom. Taper :	0.000	US Wall Half :	4.4996	DS Wall Half :	4.4995
		US Aisle Half :	4.5001	DS Aisle Half :	4.5001

S/N	: HXU_019
Date	: 16-APR-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B

PM 2

Up Stream

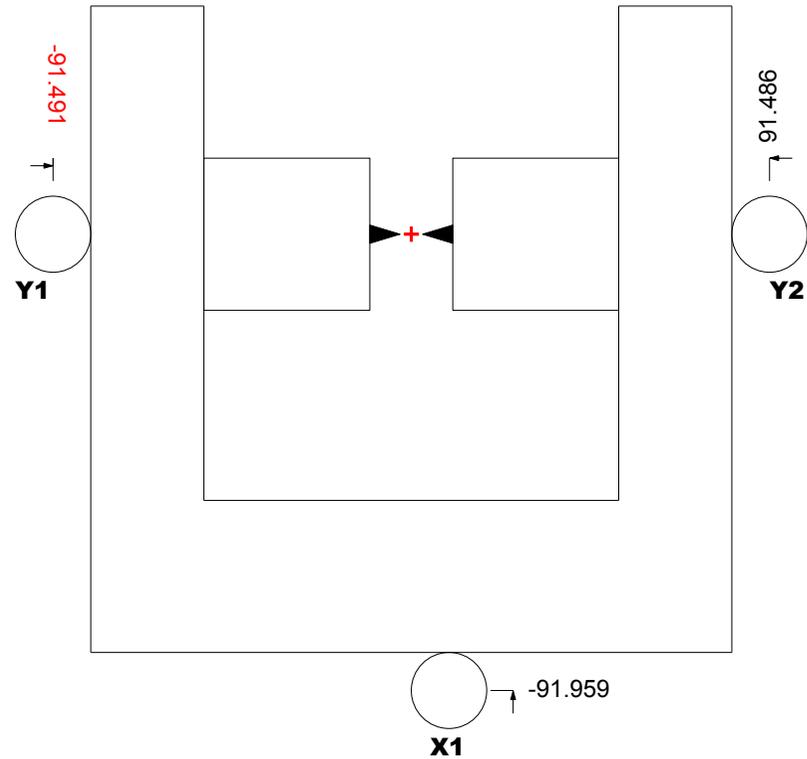
Z Center = -1841.857



PM 3

Down Stream

Z Center = 1842.754



Grider centerline in reference to Pointed Magnets

Dimensions in MM, Angles in Milliradians



HGVPU - Fiducialization, Pointed End Magnet Values

Nominal Gap :	9.000	US Full :	8.989	DS Full :	8.9925
Nom. Taper :	0.000	US Wall Half :	4.4996	DS Wall Half :	4.4995
		US Aisle Half :	4.5001	DS Aisle Half :	4.5001

S/N	: HXU_019
Date	: 16-APR-2019
Data Set	: 0001
Run	: FINAL
Cam Pos.	: B