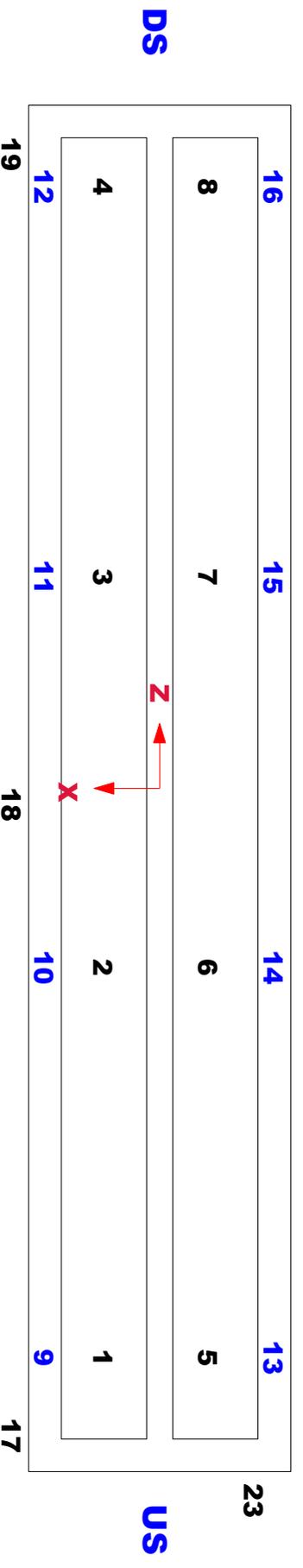


**.5in Tooling Ball Center Coordinates**

| Name  | X Corr.  | Y Corr. | Z Corr.   |
|-------|----------|---------|-----------|
| TB 9  | 429.713  | 0.083   | -1489.299 |
| TB 10 | 429.835  | 0.221   | -523.453  |
| TB 11 | 429.837  | 0.168   | 524.524   |
| TB 12 | 429.818  | 0.424   | 1489.815  |
| TB 13 | -430.117 | -0.140  | -1490.029 |
| TB 14 | -430.316 | -0.096  | -524.483  |
| TB 15 | -430.222 | -0.168  | 523.966   |
| TB 16 | -429.980 | 0.323   | 1489.493  |

**1.5in Tooling Ball Center Coordinates**

| Name  | X Corr.  | Y Corr.  | Z Corr.   |
|-------|----------|----------|-----------|
| TB 1  | 98.422   | 135.906  | -1665.006 |
| TB 2  | 97.496   | 135.837  | -554.948  |
| TB 3  | 97.275   | 135.822  | 556.851   |
| TB 4  | 98.768   | 135.820  | 1666.591  |
| TB 5  | -98.706  | 135.763  | -1665.971 |
| TB 6  | -99.514  | 135.758  | -556.480  |
| TB 7  | -99.045  | 135.710  | 556.661   |
| TB 8  | -98.919  | 135.703  | 1665.762  |
| TB 17 | 471.419  | -228.926 | -1579.710 |
| TB 18 | 472.537  | -229.197 | 86.751    |
| TB 19 | 472.450  | -229.108 | 1580.543  |
| TB 23 | -404.296 | -226.395 | -1710.251 |



**Gridler centerline in reference to Beam Pipe Locating Pins**

Dimensions in MM, Angles in Milliradians



**HGVPU - Pre-Tune Fiducials at 9mm Gap, Tooling Balls**

|               |       |                 |        |                 |        |
|---------------|-------|-----------------|--------|-----------------|--------|
| Nominal Gap : | 9.000 | US Full :       | 9.000  | DS Full :       | 9.0006 |
| Nom. Taper :  | 0.000 | US Wall Half :  | 4.5043 | DS Wall Half :  | 4.5002 |
|               |       | US Aisle Half : | 4.4942 | DS Aisle Half : | 4.4984 |

|          |               |
|----------|---------------|
| S/N      | : HXU 000     |
| Date     | : 21-JAN-2021 |
| Data Set | : 0001        |
| Run      | : 001         |
| Cam Pos. | : B           |