

Chamber Geometry Parameters From CMM

| BMG-0 (BMG-3C-12) | RO side | HV side | RO & HV common fit | Nominal |
|--------------------------|-------------------|-------------------|--------------------|---------|
| z pitch [mm] | 15.0994 ± 0.00001 | 15.0993 ± 0.00001 | 15.0994 ± 0.00001 | 15.099 |
| y pitch [mm] | 13.0978 ± 0.0002 | 13.0954 ± 0.0001 | 13.0964 ± 0.0001 | 13.085 |
| Δz multilayers [mm] | -0.0189 ± 0.0002 | -0.0048 ± 0.0004 | -0.0114 ± 0.0003 | -0.007 |
| Δy multilayers [mm] | 184.9728 ± 0.0007 | 184.981 ± 0.0007 | 184.9952 ± 0.0005 | 184.975 |
| rms (σ) z [mm] | 0.0069 (0.0057) | 0.0087 (0.0068) | 0.0083 (0.0064) | 0.020 |
| rms (σ) y [mm] | 0.0191 (0.0160) | 0.0175 (0.0159) | 0.0185 (0.0175) | 0.020 |
| rms (σ) r [mm] | 0.0131 (0.0074) | 0.0154 (0.0098) | 0.0144 (0.0089) | 0.020 |
| BMG-1 (BMG-3A-12) | RO side | HV side | RO & HV common fit | Nominal |
| z pitch [mm] | 15.0991 ± 0.00001 | 15.0990 ± 0.00001 | 15.0990 ± 0.00001 | 15.099 |
| y pitch [mm] | 13.0907 ± 0.0002 | 13.0841 ± 0.0001 | 13.0877 ± 0.0001 | 13.085 |
| Δz multilayers [mm] | -0.0164 ± 0.0002 | -0.0005 ± 0.0004 | -0.0085 ± 0.0003 | -0.007 |
| Δy multilayers [mm] | 184.9667 ± 0.0004 | 184.9731 ± 0.0007 | 184.9697 ± 0.0005 | 184.975 |
| rms (σ) z [mm] | 0.0078 (0.0061) | 0.0075 (0.0053) | 0.0080 (0.0061) | 0.020 |
| rms (σ) y [mm] | 0.0143 (0.0100) | 0.0111 (0.0101) | 0.0126 (0.0112) | 0.020 |
| rms (σ) r [mm] | 0.0101 (0.0065) | 0.0089 (0.0061) | 0.0099 (0.0070) | 0.020 |
| BMG-2 (BMG-3A-14) | RO side | HV side | RO & HV common fit | Nominal |
| z pitch [mm] | 15.0993 ± 0.00001 | 15.0992 ± 0.00001 | 15.0992 ± 0.00001 | 15.099 |
| y pitch [mm] | 13.0929 ± 0.0002 | 13.0838 ± 0.0001 | 13.0883 ± 0.0001 | 13.085 |
| Δz multilayers [mm] | -0.0117 ± 0.0002 | -0.0044 ± 0.0004 | -0.0081 ± 0.0003 | -0.007 |
| Δy multilayers [mm] | 184.9539 ± 0.0004 | 184.9758 ± 0.0007 | 184.9643 ± 0.0005 | 184.975 |
| rms (σ) z [mm] | 0.0082 (0.0063) | 0.0054 (0.0041) | 0.0070 (0.0051) | 0.020 |
| rms (σ) y [mm] | 0.0190 (0.0146) | 0.0093 (0.0067) | 0.0153 (0.0110) | 0.020 |
| rms (σ) r [mm] | 0.0102 (0.0096) | 0.0066 (0.0049) | 0.0085 (0.0074) | 0.020 |