



## Tool Make & Model

## Tool Configuration / Specifications

|             |       |                                                            |       |         |       |       |       |            |       |       |       |       |       |                      |       |       |       |       |     |      |    |
|-------------|-------|------------------------------------------------------------|-------|---------|-------|-------|-------|------------|-------|-------|-------|-------|-------|----------------------|-------|-------|-------|-------|-----|------|----|
| [ CD DOF ]  |       | (0.63 NA) 0.65um DENSE LINE DOF / Dupont SPR660 1.1, 275mJ |       |         |       |       |       |            |       |       |       |       |       |                      |       |       |       |       |     |      |    |
|             |       | SEM measurement: Applied Materials NanonSEM 3D             |       |         |       |       |       |            |       |       |       |       |       | Customer Machine: 94 |       |       |       |       |     |      |    |
| Target L&S= |       | 650                                                        | nm    | Slice ± |       | 8.0   | %     | TOTAL DOF= |       | 0.90  | um    |       |       |                      |       |       |       | Ave   | DOF | 1.32 | um |
| min CD      | 598   | nm                                                         |       |         |       |       |       |            |       |       |       |       |       |                      |       |       |       | Min   | DOF | 1.00 | um |
| max CD      | 702   | nm                                                         |       |         |       |       |       |            |       |       |       |       |       |                      |       |       |       | Max   | DOF | 1.90 | um |
|             |       |                                                            |       |         |       |       |       |            |       |       |       |       |       |                      |       |       |       |       |     |      |    |
|             | UL V  | UL H                                                       | UC V  | UC H    | UR V  | UR H  | CL V  | CL H       | CC V  | CC H  | CR V  | CR H  | LL V  | LL H                 | LC V  | LC H  | LR V  | LR H  |     |      |    |
| min         | -1.00 | -1.00                                                      | -1.00 | -0.80   | -0.80 | -0.80 | -0.90 | -0.90      | -1.00 | -1.00 | -1.00 | -0.90 | -1.00 | -0.90                | -1.00 | -1.00 | -1.00 | -1.00 |     |      |    |
| max         | 0.90  | 0.80                                                       | 0.20  | 0.50    | 0.40  | 0.30  | 0.20  | 0.20       | 0.20  | 0.20  | 0.20  | 0.10  | 0.60  | 0.50                 | 0.30  | 0.30  | 0.50  | 0.40  |     |      |    |
| DOF         | 1.90  | 1.80                                                       | 1.20  | 1.30    | 1.20  | 1.10  | 1.10  | 1.10       | 1.20  | 1.20  | 1.20  | 1.00  | 1.60  | 1.40                 | 1.30  | 1.30  | 1.50  | 1.40  |     |      |    |
| B.F.        | -0.05 | -0.10                                                      | -0.40 | -0.15   | -0.20 | -0.25 | -0.35 | -0.35      | -0.40 | -0.40 | -0.40 | -0.40 | -0.20 | -0.20                | -0.35 | -0.35 | -0.25 | -0.30 |     |      |    |
|             |       |                                                            |       |         |       |       |       |            |       |       |       |       |       |                      |       |       |       |       |     |      |    |
|             |       | [ AFTER TILT COMPENSATION BY CALCULATION ]                 |       |         |       |       |       |            |       |       |       |       |       |                      |       |       |       |       |     |      |    |
| COMP.       | 6     | 6                                                          | 7     | 7       | 8     | 8     | 7     | 7          | 8     | 8     | 9     | 9     | 8     | 8                    | 9     | 9     | 10    | 10    |     |      |    |
|             | UL V  | UL H                                                       | UC V  | UC H    | UR V  | UR H  | CL V  | CL H       | CC V  | CC H  | CR V  | CR H  | LL V  | LL H                 | LC V  | LC H  | LR V  | LR H  |     |      |    |
| min         | -0.69 | -0.69                                                      | -0.64 | -0.44   | -0.40 | -0.40 | -0.55 | -0.55      | -0.60 | -0.60 | -0.55 | -0.45 | -0.60 | -0.50                | -0.56 | -0.56 | -0.51 | -0.51 |     |      |    |
| max         | 1.21  | 1.11                                                       | 0.56  | 0.86    | 0.80  | 0.70  | 0.55  | 0.55       | 0.60  | 0.60  | 0.65  | 0.55  | 1.00  | 0.90                 | 0.74  | 0.74  | 0.99  | 0.89  |     |      |    |
| B.F.        | 0.26  | 0.21                                                       | -0.04 | 0.21    | 0.20  | 0.15  | 0.00  | 0.00       | 0.00  | 0.00  | 0.05  | 0.05  | 0.20  | 0.20                 | 0.09  | 0.09  | 0.24  | 0.19  |     |      |    |
|             |       |                                                            |       |         |       |       |       |            |       |       |       |       |       |                      |       |       |       |       |     |      |    |
|             |       | TOTAL DOF =                                                |       |         |       |       |       |            |       |       |       |       |       | 0.94                 | um    |       |       |       |     |      |    |

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