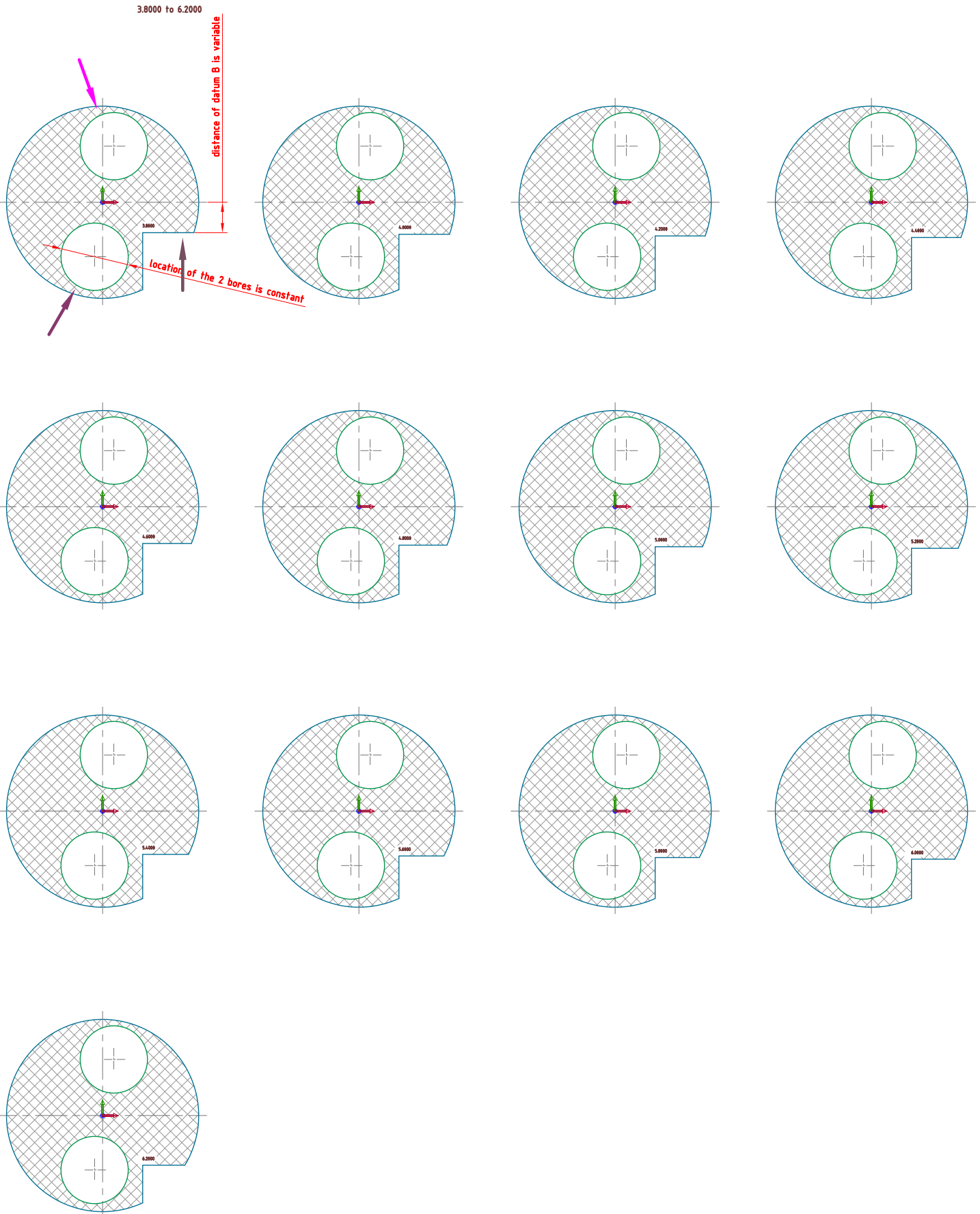


True Position and datum AB

Pic. #2

13 actual geometries

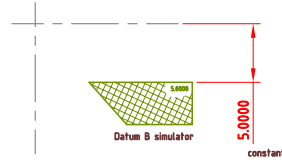
constant constant variable



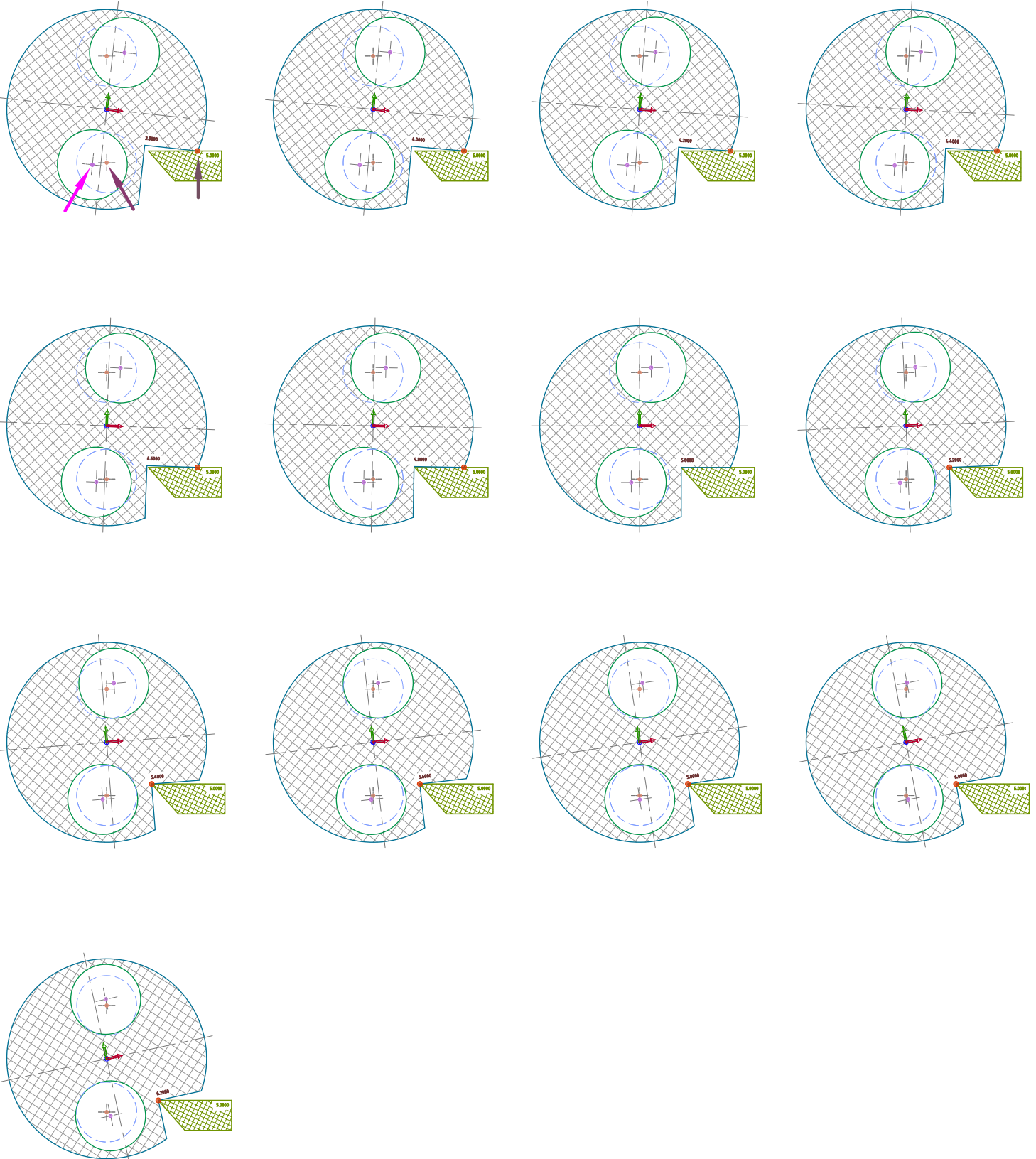
True Position and datum AB

Datum B simulator at 5.0000

Pic. #3



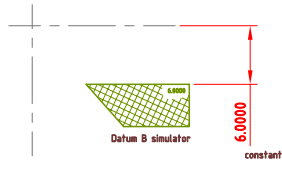
- touching point
 - center point nominal
 - center point actual
- ↑
- ↑
- ↑



True Position and datum AB

Datum B simulator at 6.0000

Pic. #4



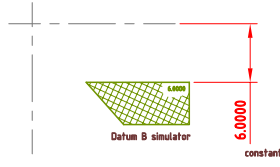
- touching point
 - center point nominal
 - center point actual
- ↑ ↑ ↑



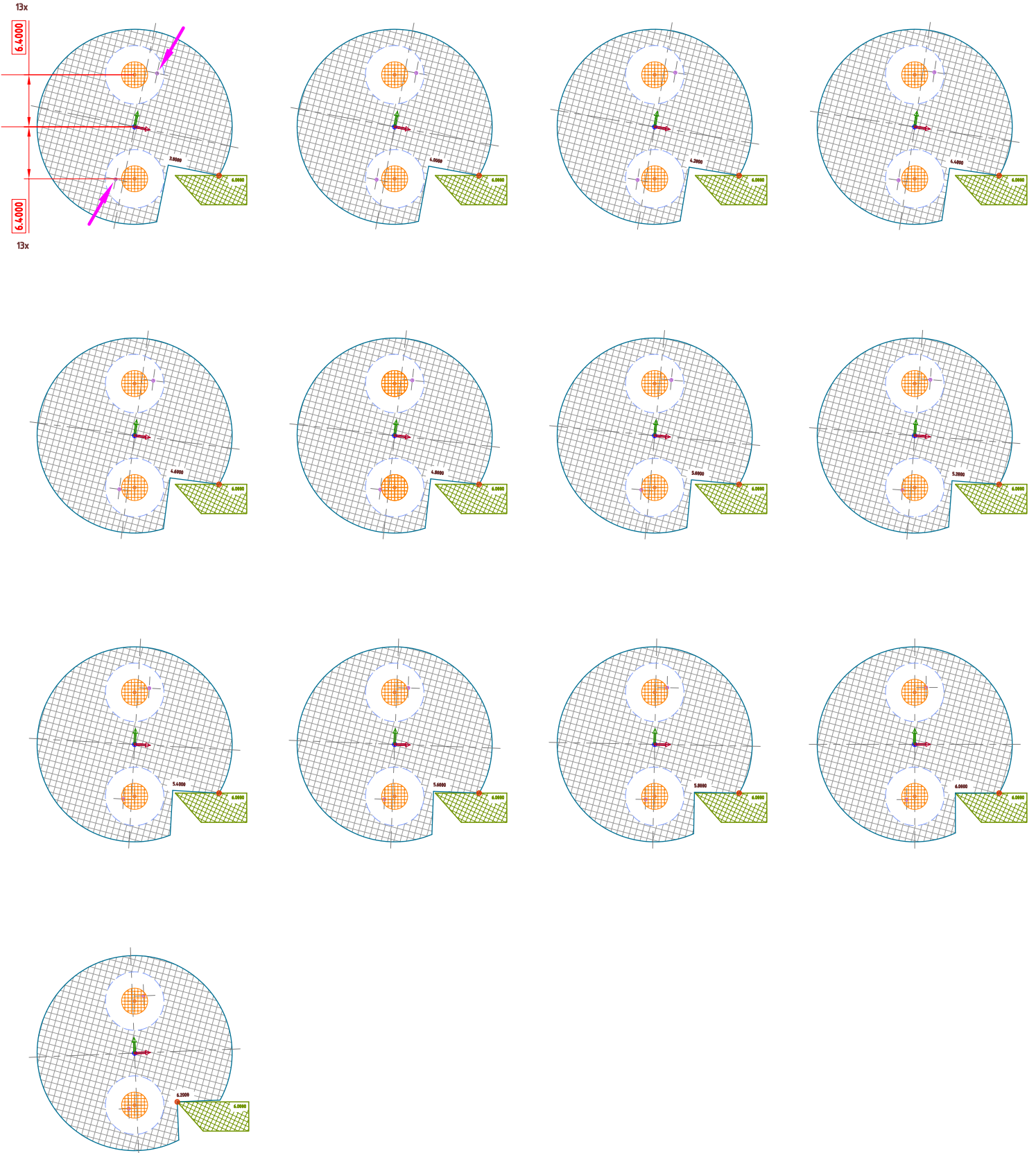
True Position and datum AB

Pic. #6

Datum B - simulator at 6.0000



 Tolerance zone $\varnothing 0.3000$ (26x)  center point actual



True Position and datum AB

Pic. #7

Datum B - simulator at 5.0000

⊕ ⌀0.3(M) A B [BSC]

5.0000

Datum B simulator

Datum B - simulator at 6.0000

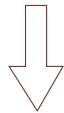
⊕ ⌀0.3(M) A B(M)

5.0000

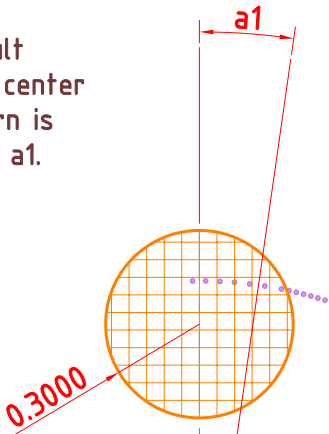
+
1.0000

=
6.0000

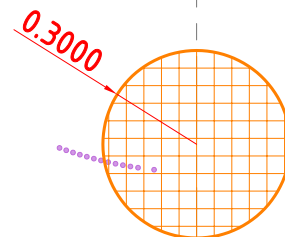
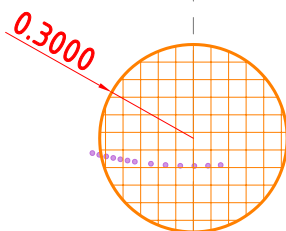
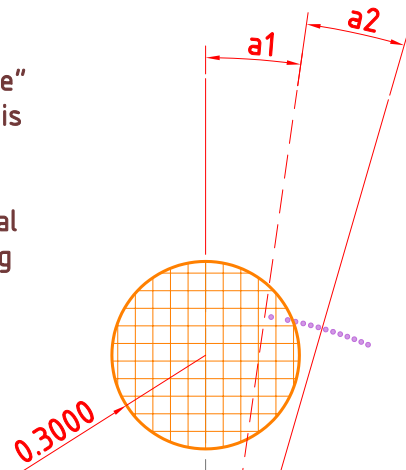
Datum B simulator



Due to the default values of actual center points the pattern is rotated by angle a1.



Due to the "MM-size" 6.0000 the pattern is rotated by angle a1 and angle a2. There is no technical reason for admitting such a phenomenon.



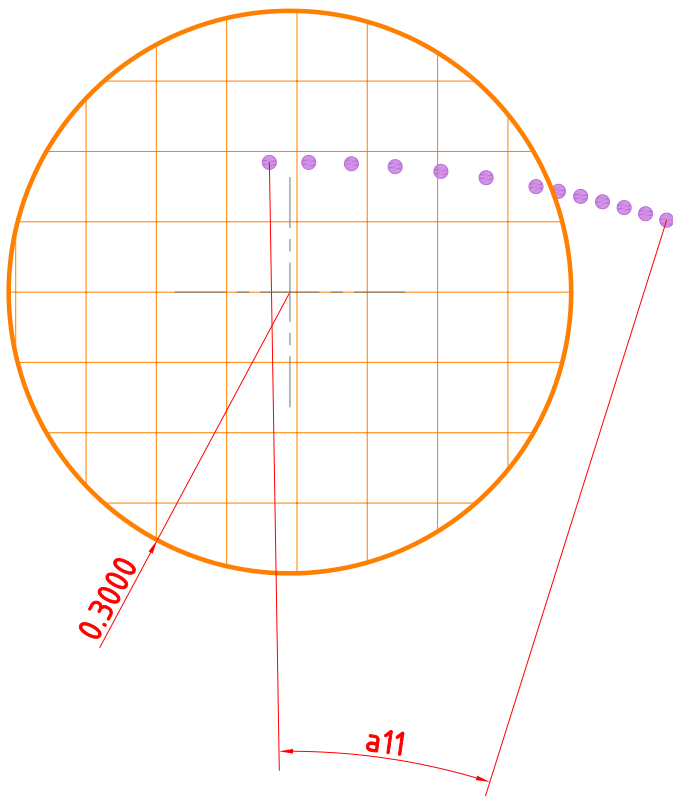
True Position and datum AB

Pic. #8

Datum B - simulator at 5.0000

\oplus $\varnothing 0.3$ (M) A B [BSC]

5.0000 Datum B simulator



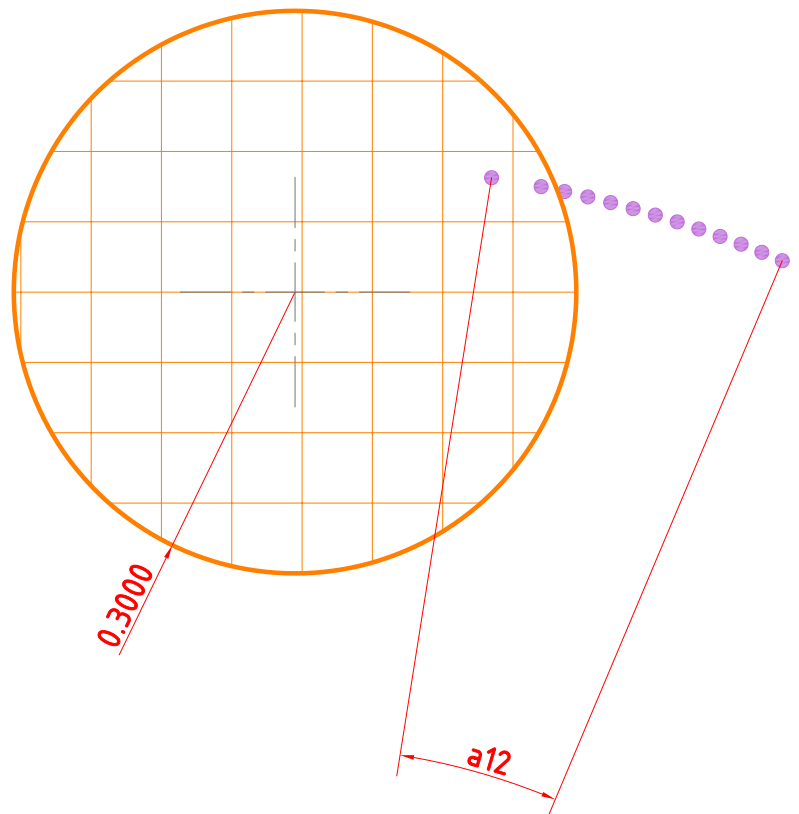
Angle $a11 >$ angle $a12$:

significant "Tolerance Benefit" caused by the changeable one-point-touchment at the datum B-simulator.

Datum B - simulator at 6.0000

\oplus $\varnothing 0.3$ (M) A B (M)

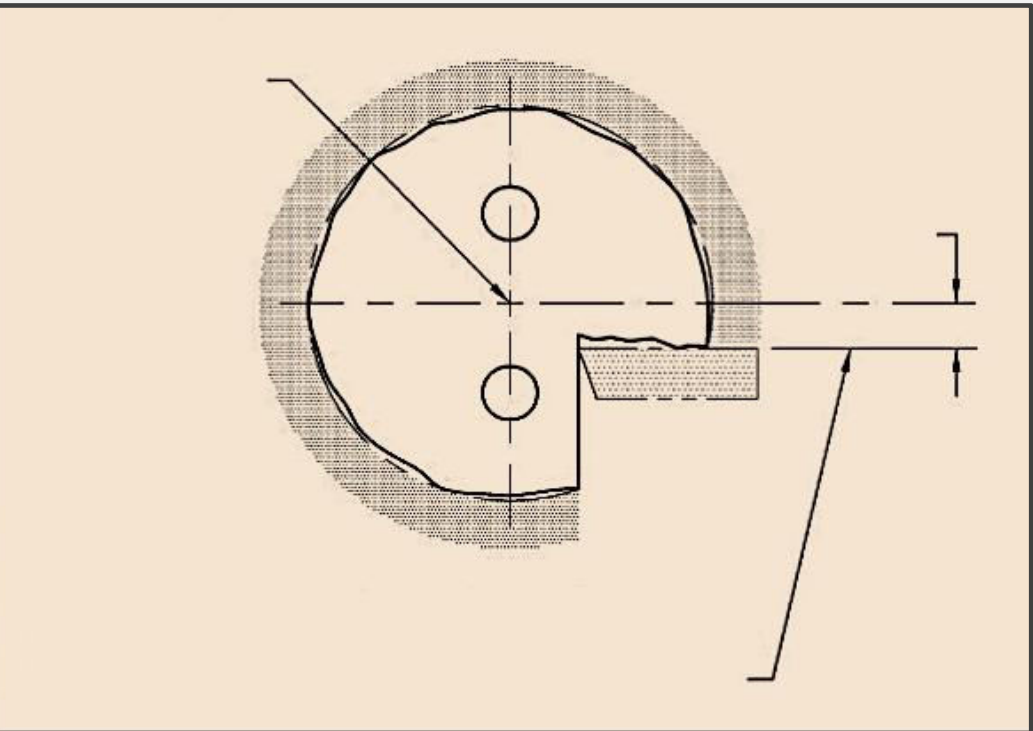
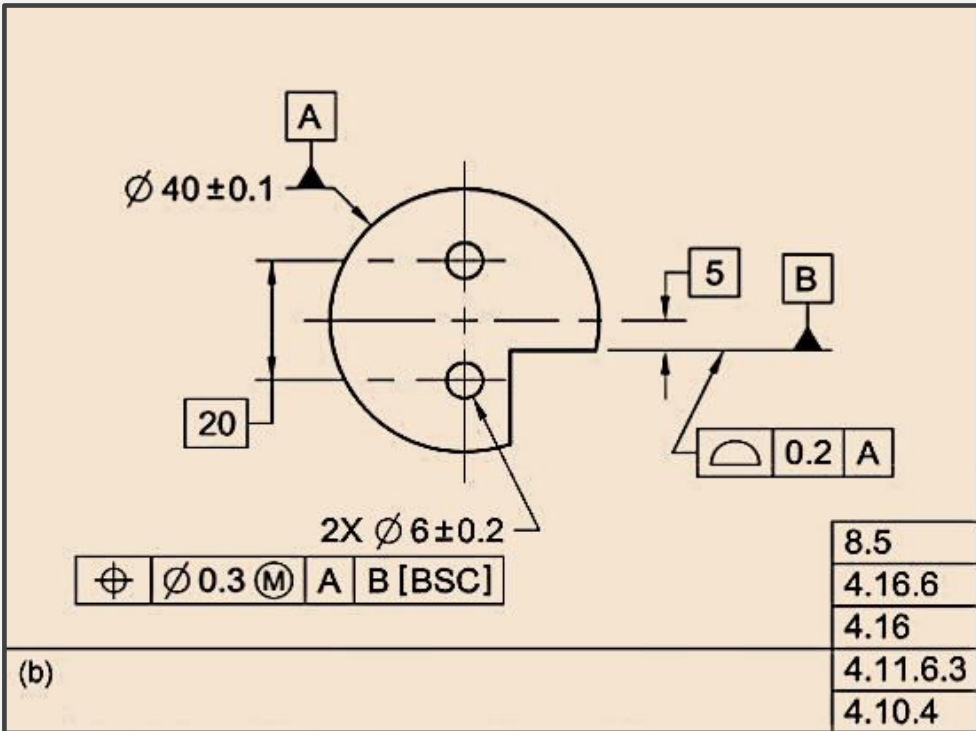
5.0000
+
1.0000
=
6.0000 Datum B simulator



Angle $a12 <$ angle $a11$:

reduced "Tolerance Benefit" in spite of MMC on datum B. MMC obviously only leads to an unintended "rotatory offset".

\oplus $\varnothing 0.3$ (M) A B (M)



(b)

The Maximum-Material-Condition in combination with the size 5.1000 doesn't lead to any "tolerance-benefit" Pic. 4-31c has to be rejected!

