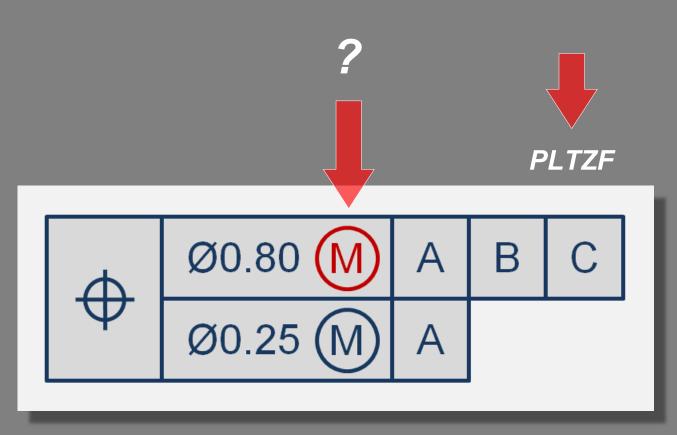
This is absolutely false. the lower segment of a composite tolerance controls the Feature to feature relationship whereas the upper segment controls the entire pattern in relation to the datum reference frame. The two types of segments are referred to as the Feature-Relating Tolerance Zone Framework or FRTZF, and the Pattern-Locating Tolerance Zone Framework or PLTZF respectively.

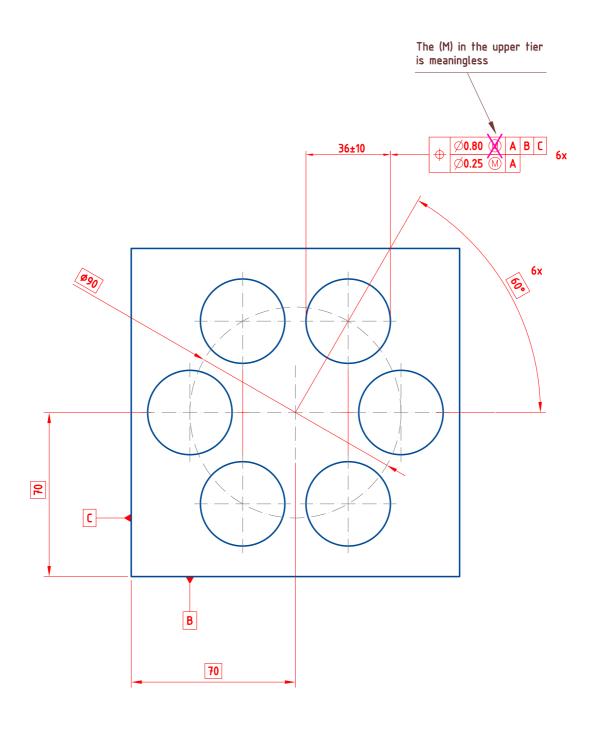
Really? The entire pattern?

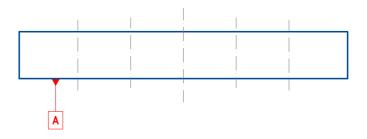
An effort to understand what this could mean.



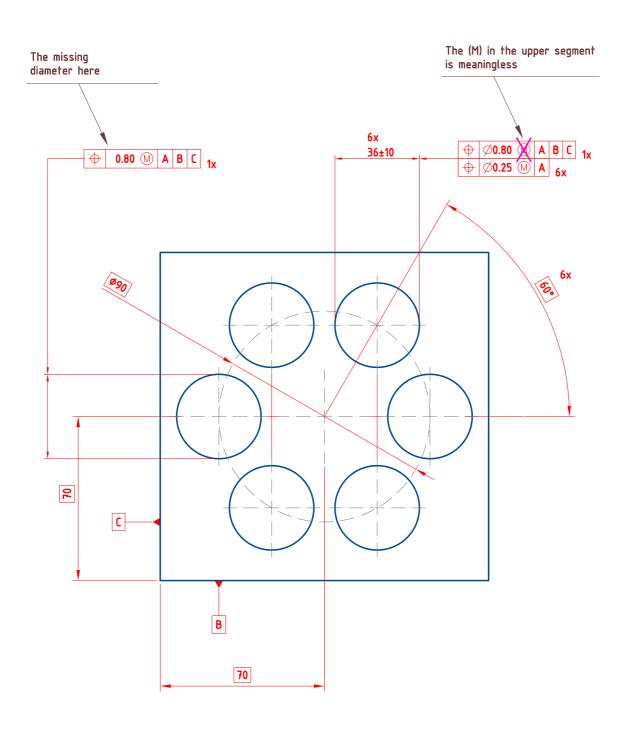
FRTZF

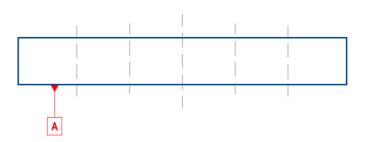
The Composite True Position





The Single Segment True Position

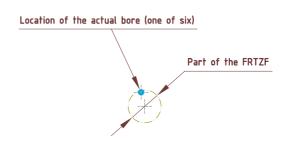


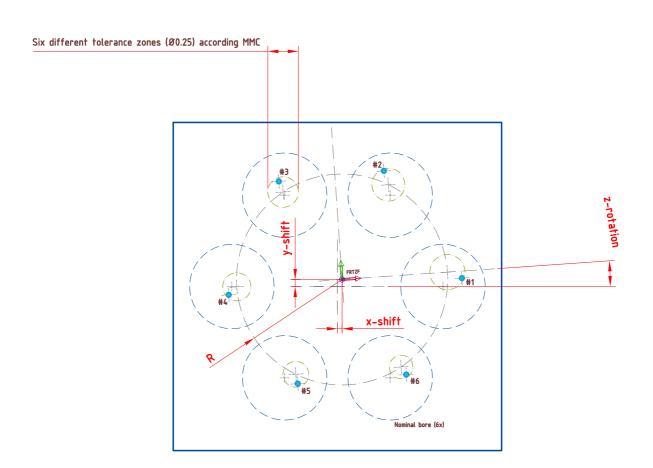


The Composite True Position Six tolerance zones $\emptyset 0.25$ (plus bonus) and six actual positions

The FRTZF as a result of Best-Fit

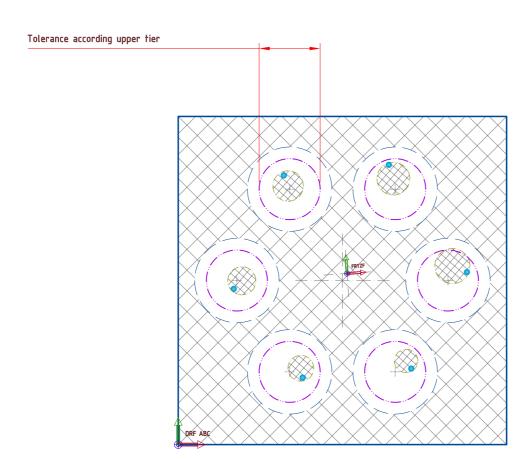


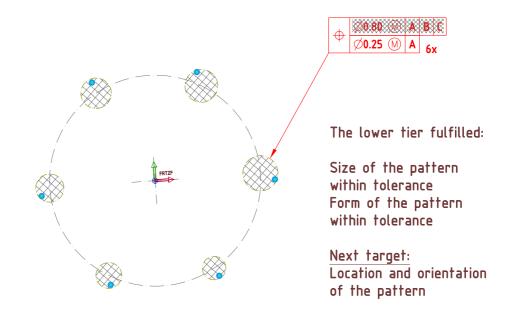




Bonu	Bonus-tolerance zones:	
#1:	0.38	
#2:	0.36	
#3:	0.34	
#4:	0.32	
#5:	0.30	
#6:	0.28	

The Composite True Position
Six tolerance zones Ø0.25 (plus bonus)
Six tolerance zones Ø0.80 (without bonus)
and six actual positions



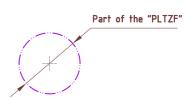


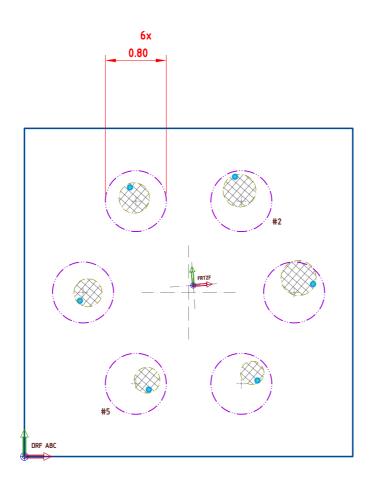
The Composite True Position

The location of the pattern,that is limited by the "PLTZF"

The direction of the pattern,that is limited by the "PLTZF"







Question

When regarding the location of the pattern,do we need all six bores?

NO!

When regarding the direction of the pattern, do we need all six bores?

NO!

The Pattern Locating Tolerance Zone Framework

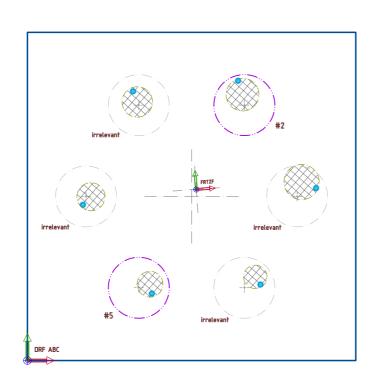
Pic. #6

The Composite True Position

The two bores that define a "Reduced PLTZF".
This framework is limiting location and orientation of the "Virtual Assembling Part".

Bores #1; 3; 4; 6 have not be regarded!



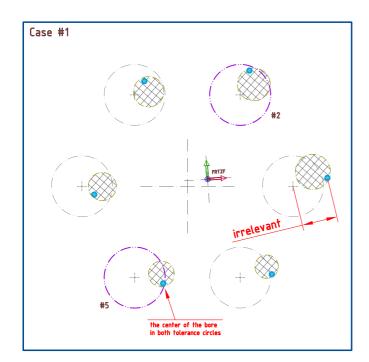


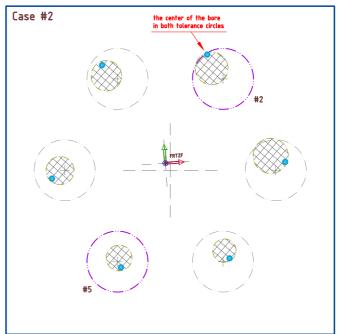
The fitting function with the "Virtual Assembling Part" is accomplished by regarding the FRTZF.
Therefore:
The MMC on the PLTZF in the upper tier is meaningless.

The Composite True Position

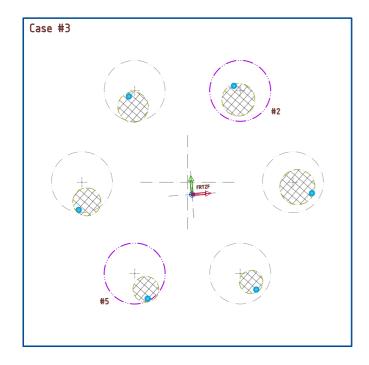
Four different patterns in order to show the functionality of a "Reduced PLTZF".

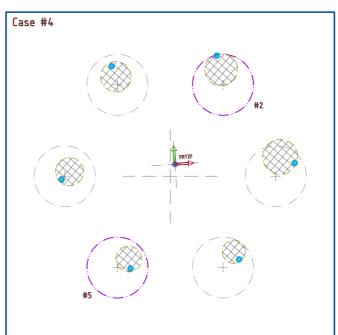






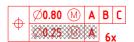
Translation only

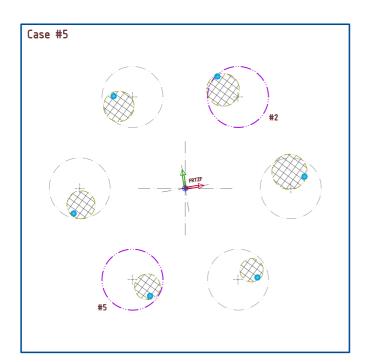


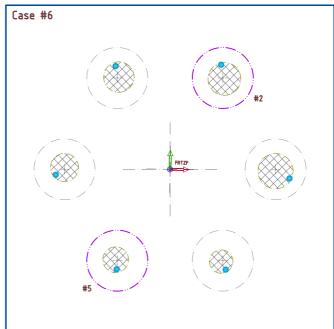


The Composite True Position

Four different patterns in order to show the functionality of a "Reduced PLTZF".







Rotation only

