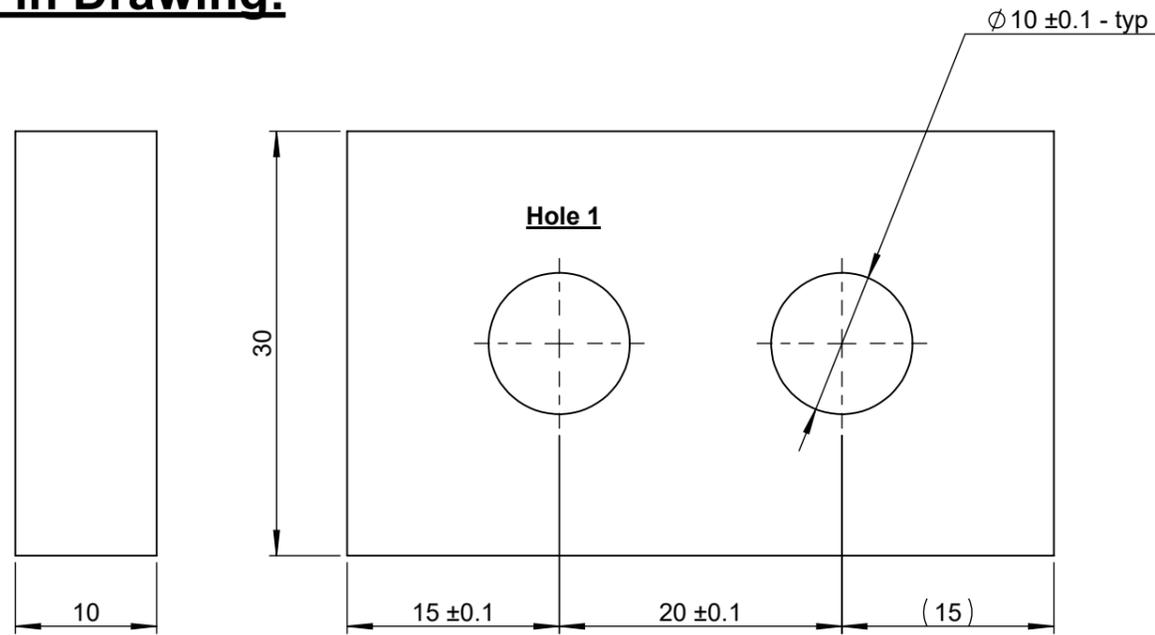
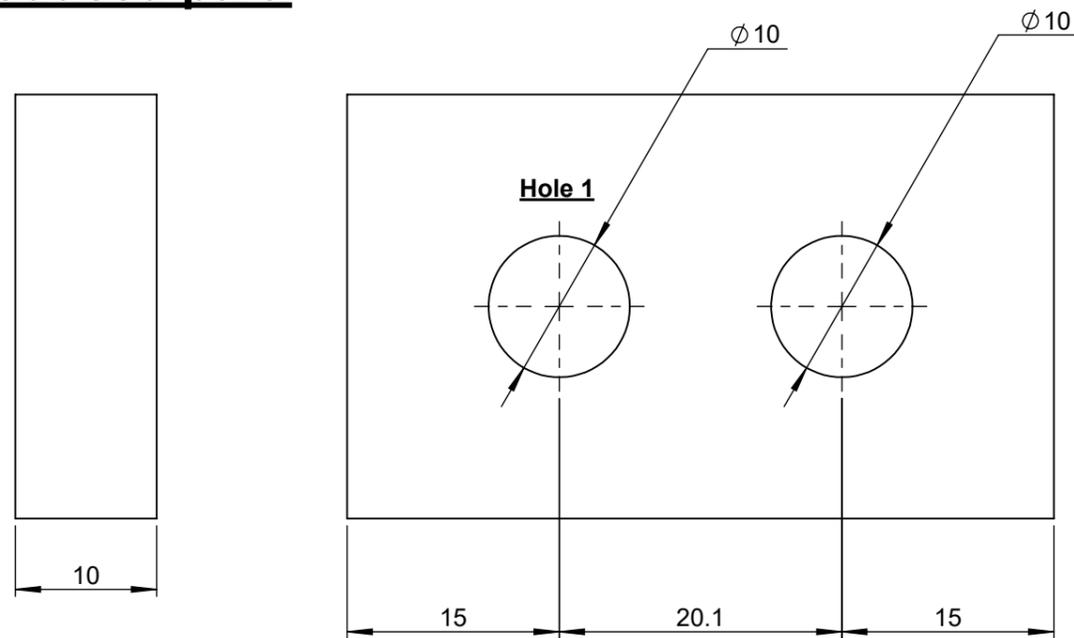


As in Drawing:

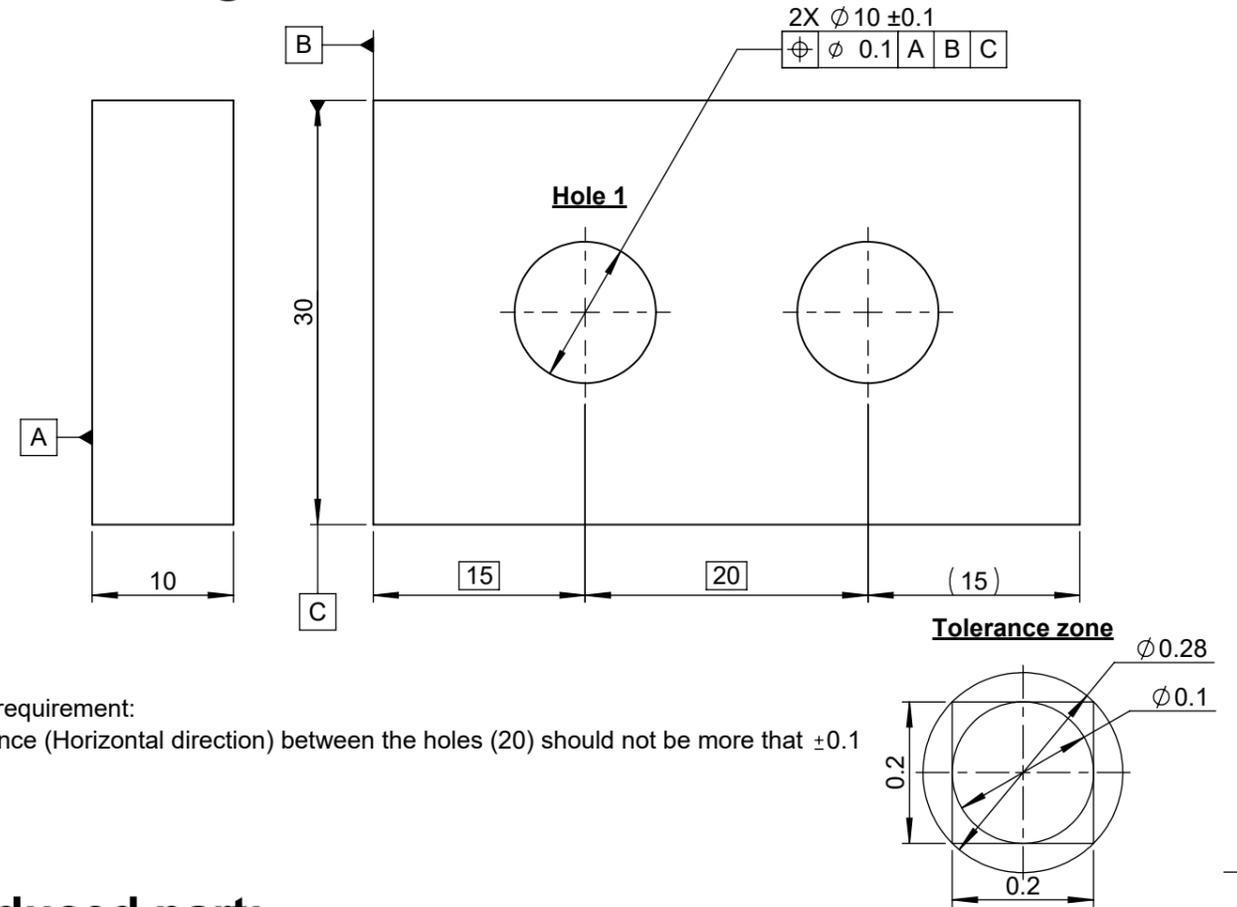


Design requirement:
1) Distance (Horizontal direction) between the holes (20) should not be more that ± 0.1

Produced part:

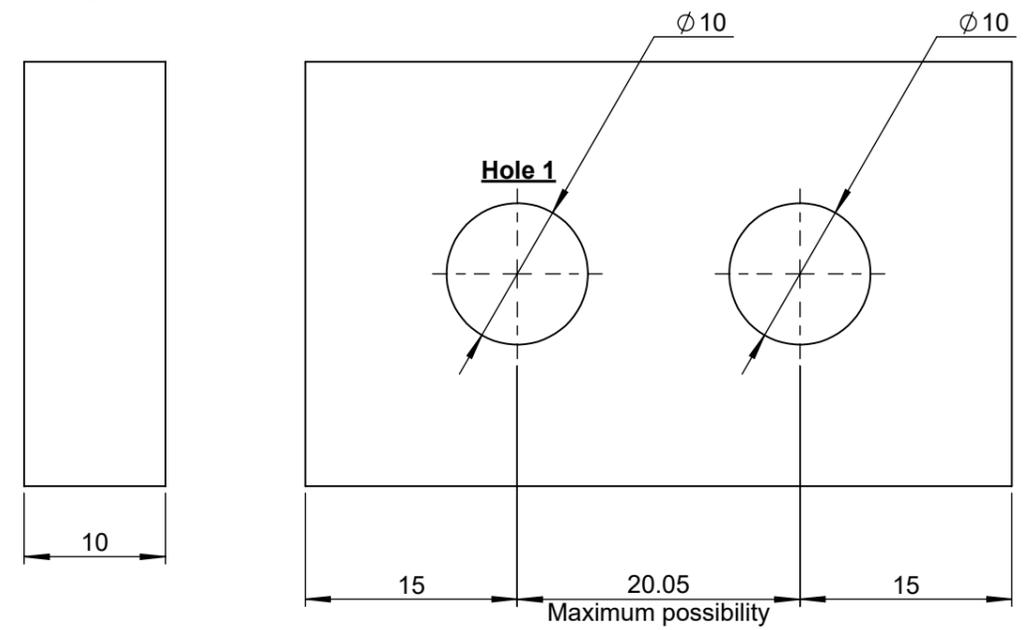


As in Drawing:



Design requirement:
1) Distance (Horizontal direction) between the holes (20) should not be more that ± 0.1

Produced part:



My doubt:

- 1) In \pm tolerance method, the maximum possible displacement is $20.1 / 19.9$.
- 2) In GD&T method, if the hole 1 is produced at exact 15 (though dia 0.1 position tolerance available), and the hole 2 produced at maximum tolerance (i.e, 0.05 away or towards hole 1). Hence the maximum possible dislocation is $20.05 / 19.95$.
- 3) Hence the tolerance in GD&T is 0.05 less than \pm tolerance method.

4) Is there any other method, to utilize unused 0.05 tolerance from hole 1.
Consider there are "n" number of holes to be produced horizontally.