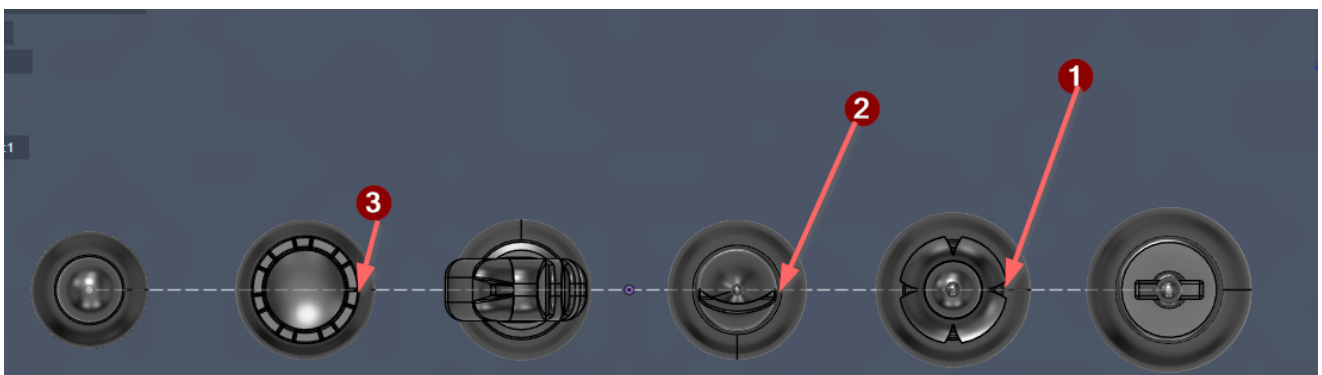


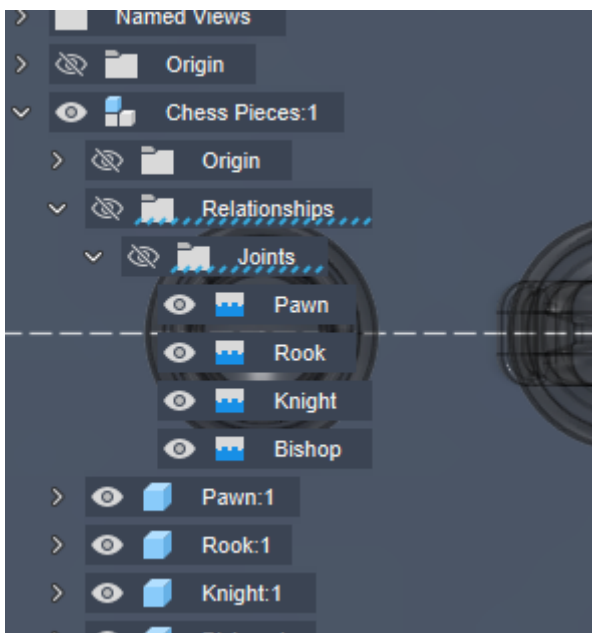
Two-Part Mold



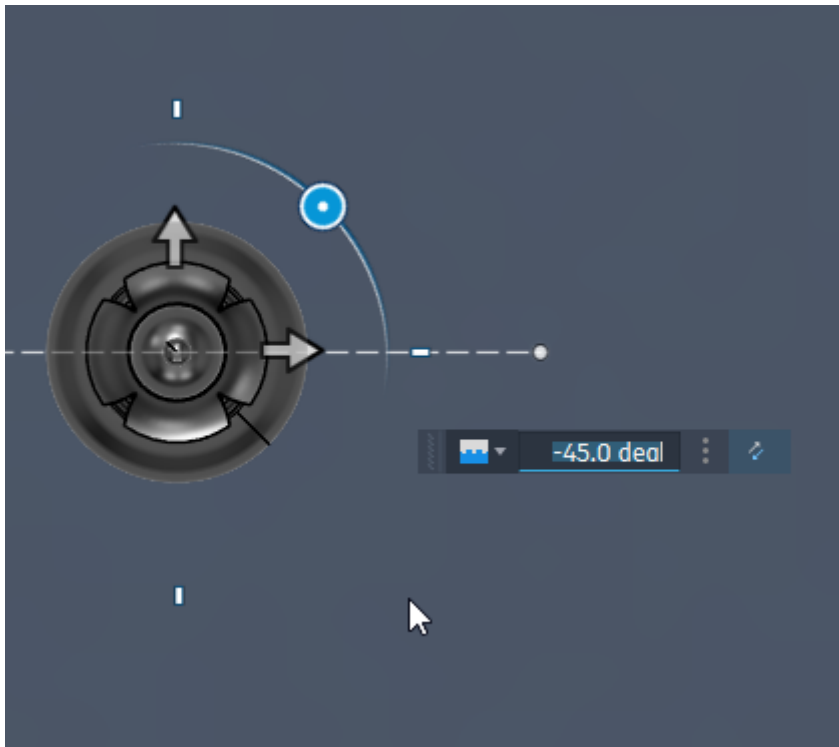
Import the file.



These chess pieces need rotation because their shapes may cause issues while cutting the mold.



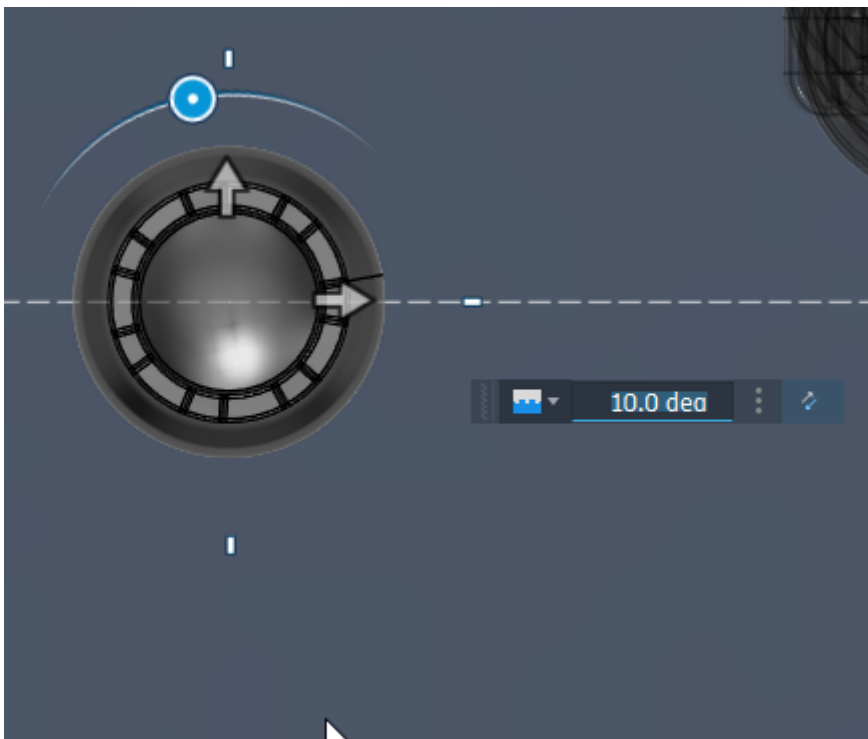
Use the **Joint** tool to rotate each piece.



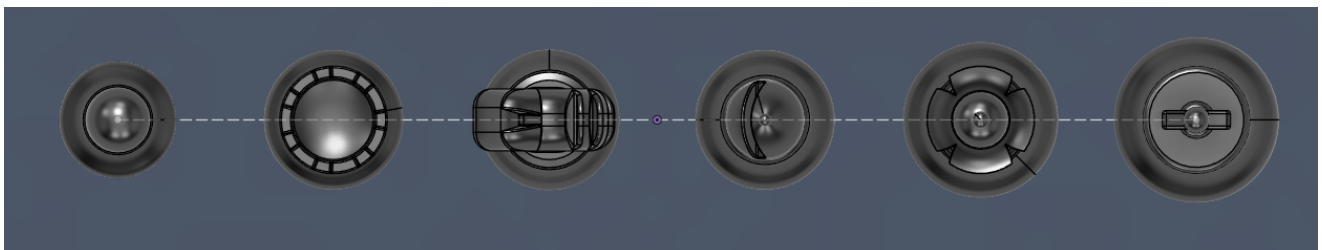
Rotate the Queen **45°**.



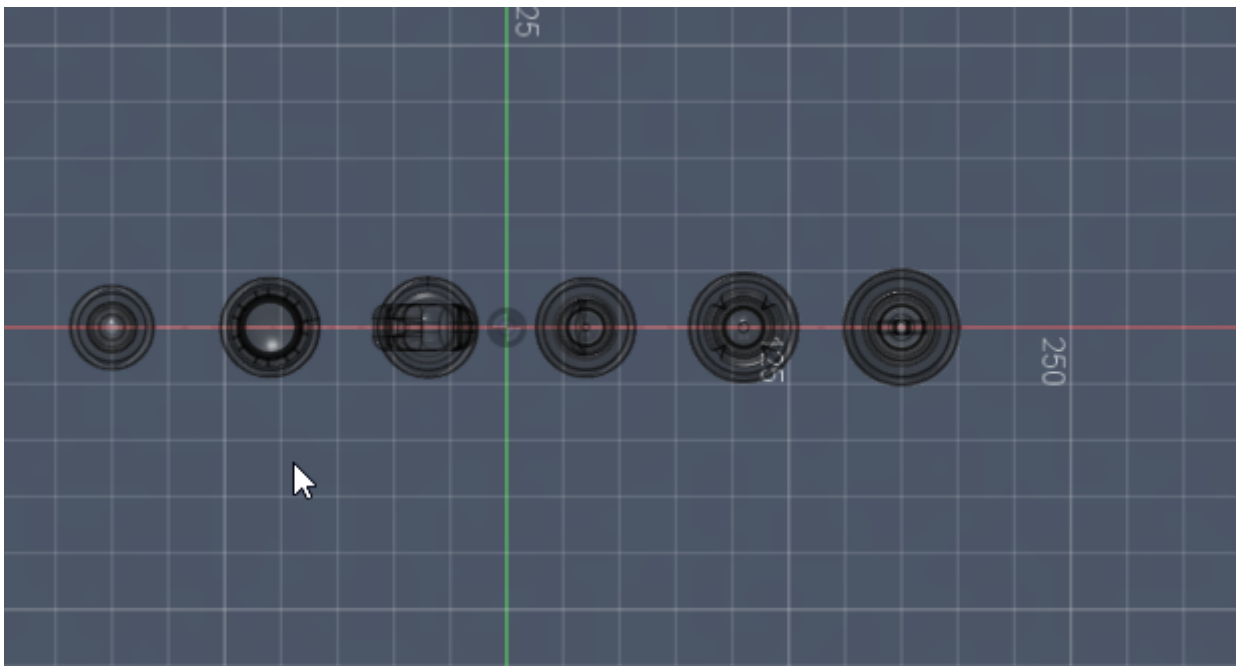
Rotate the Bishop.



Rotate the Rook.

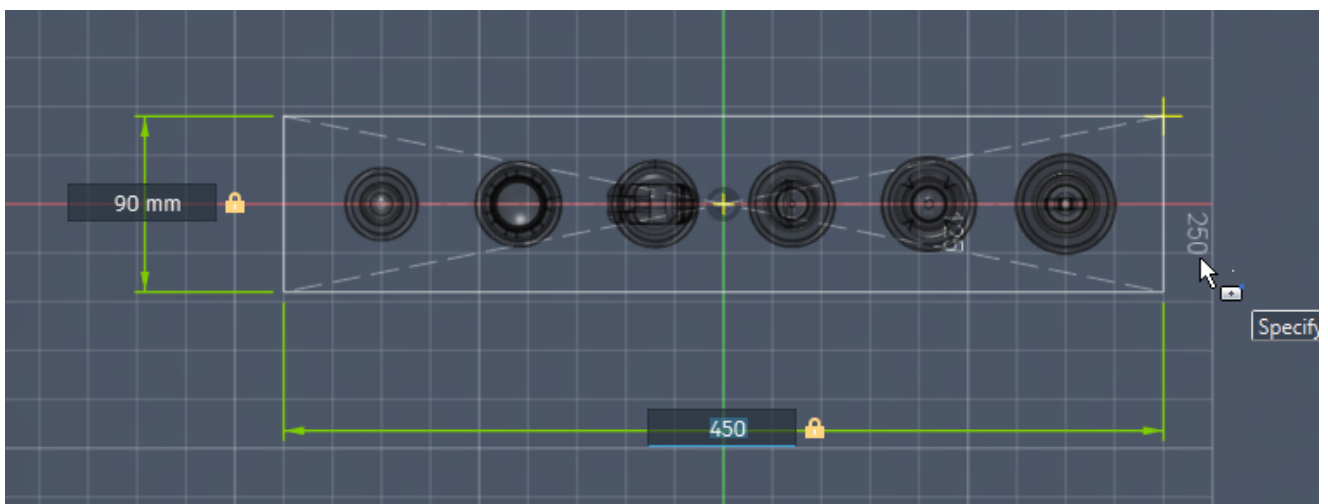


Result after all rotations.



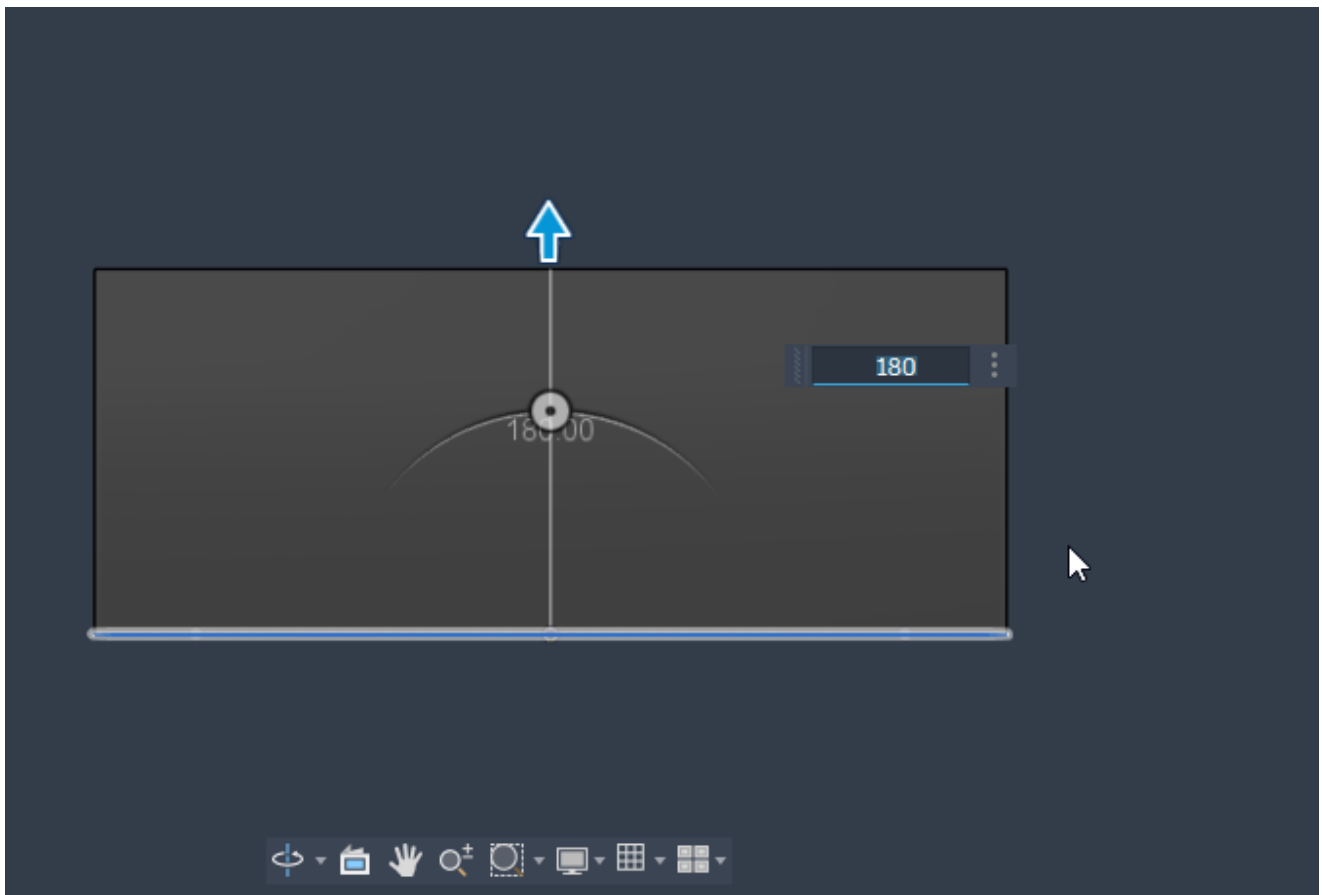
Create a new component.

Create sketch → **XY plane** → center rectangle.

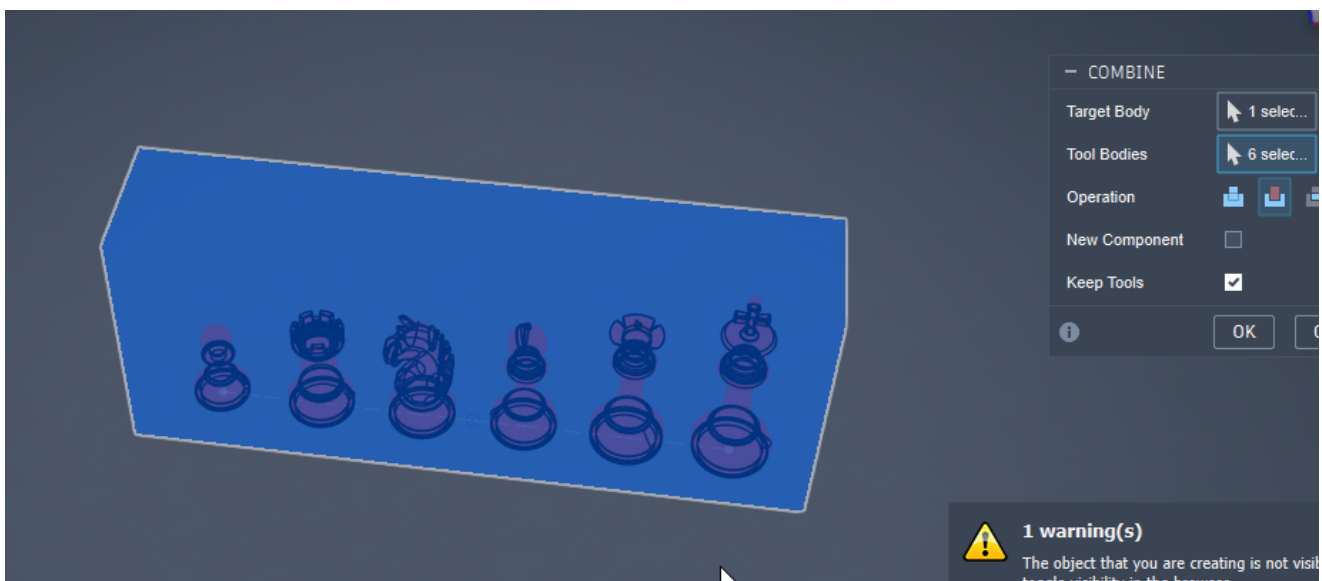


Set rectangle size:

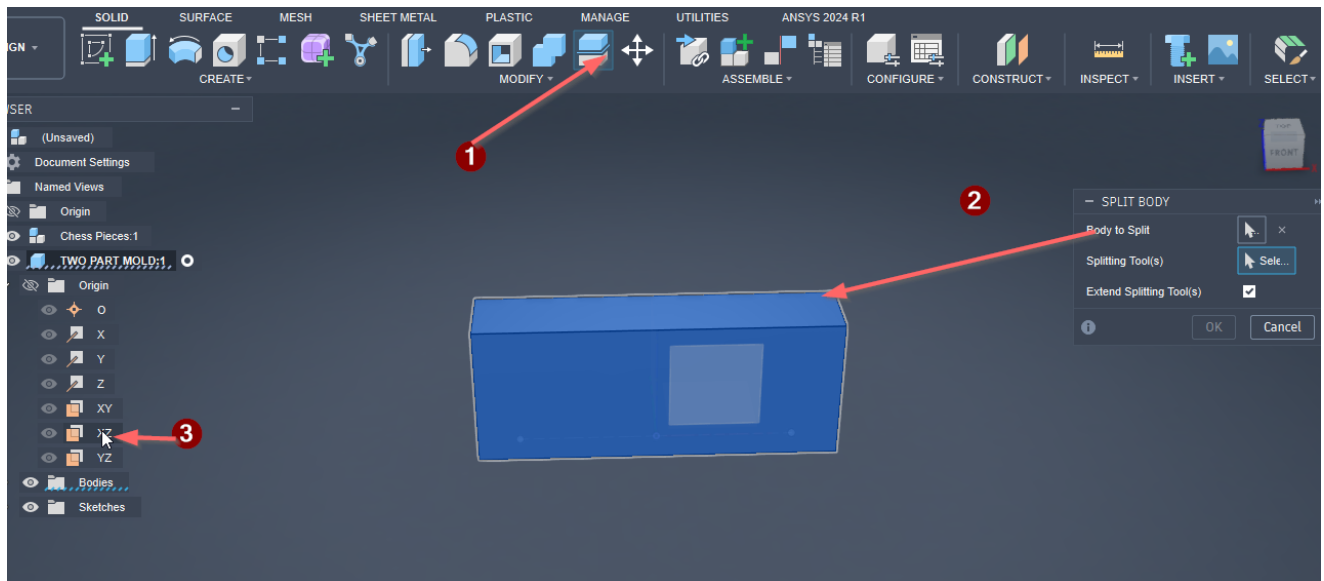
- Width **90 mm**
- Length **450 mm**



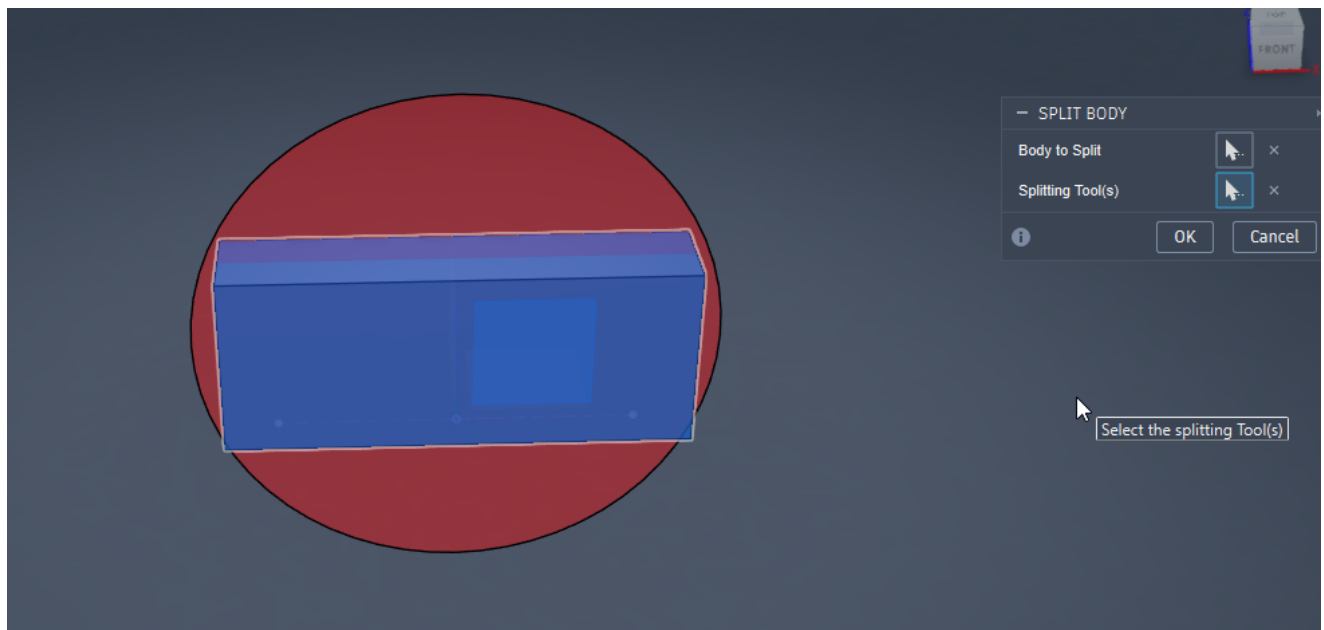
Extrude **180 mm**.



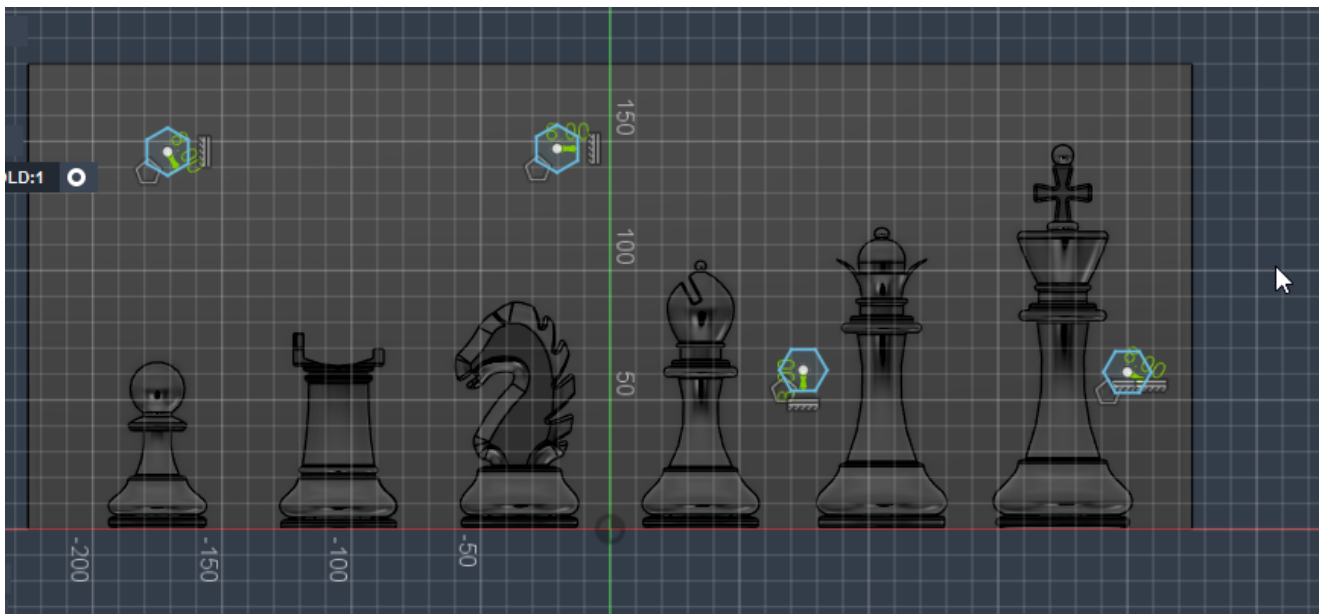
Use the **Combine** tool to cut out the chess pieces from the mold block.



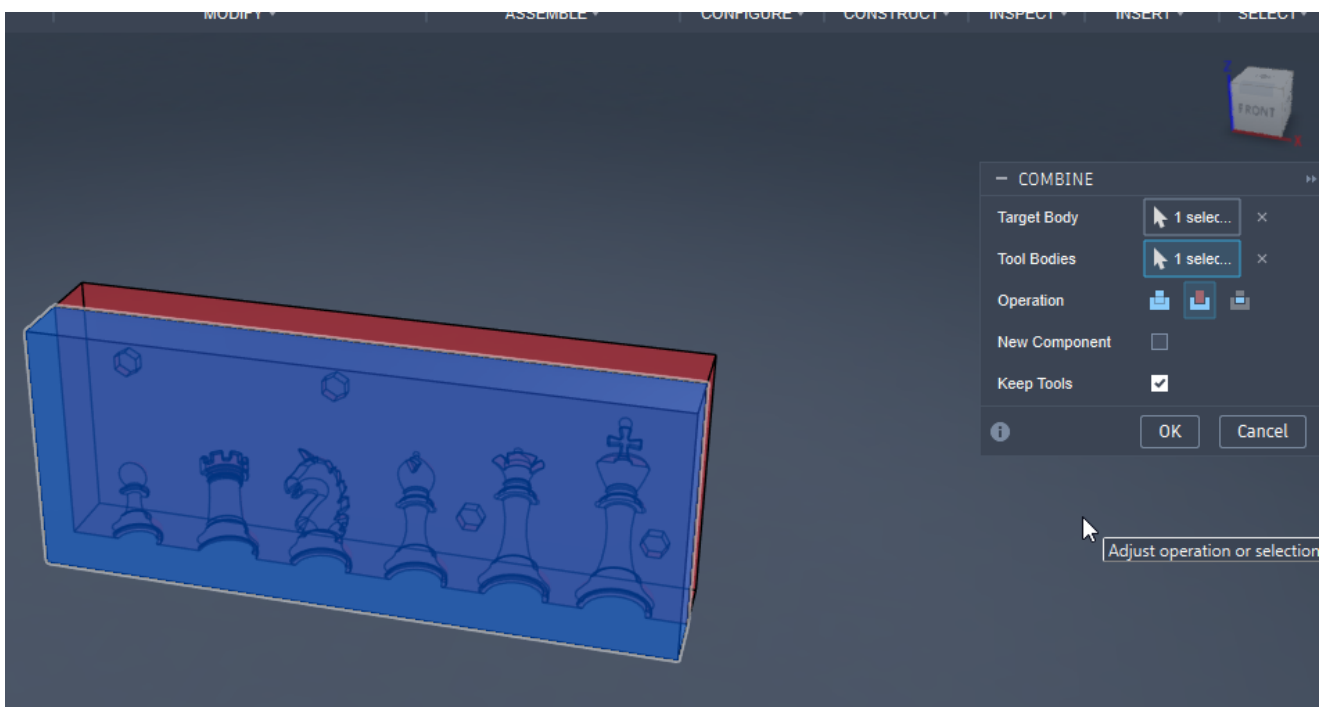
- 1 — Split Body tool
- 2 — Select mold body
- 3 — Select split axis



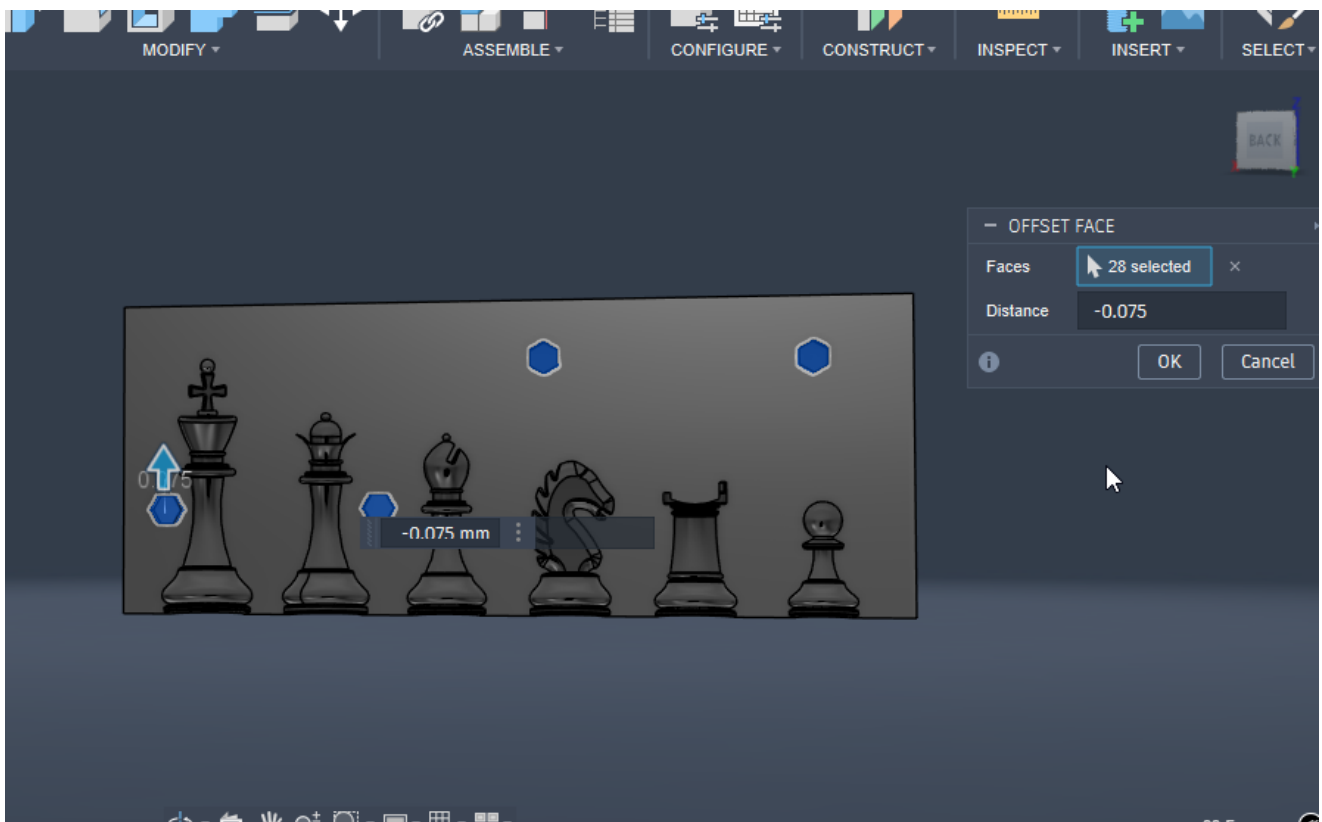
Click OK to complete the split.



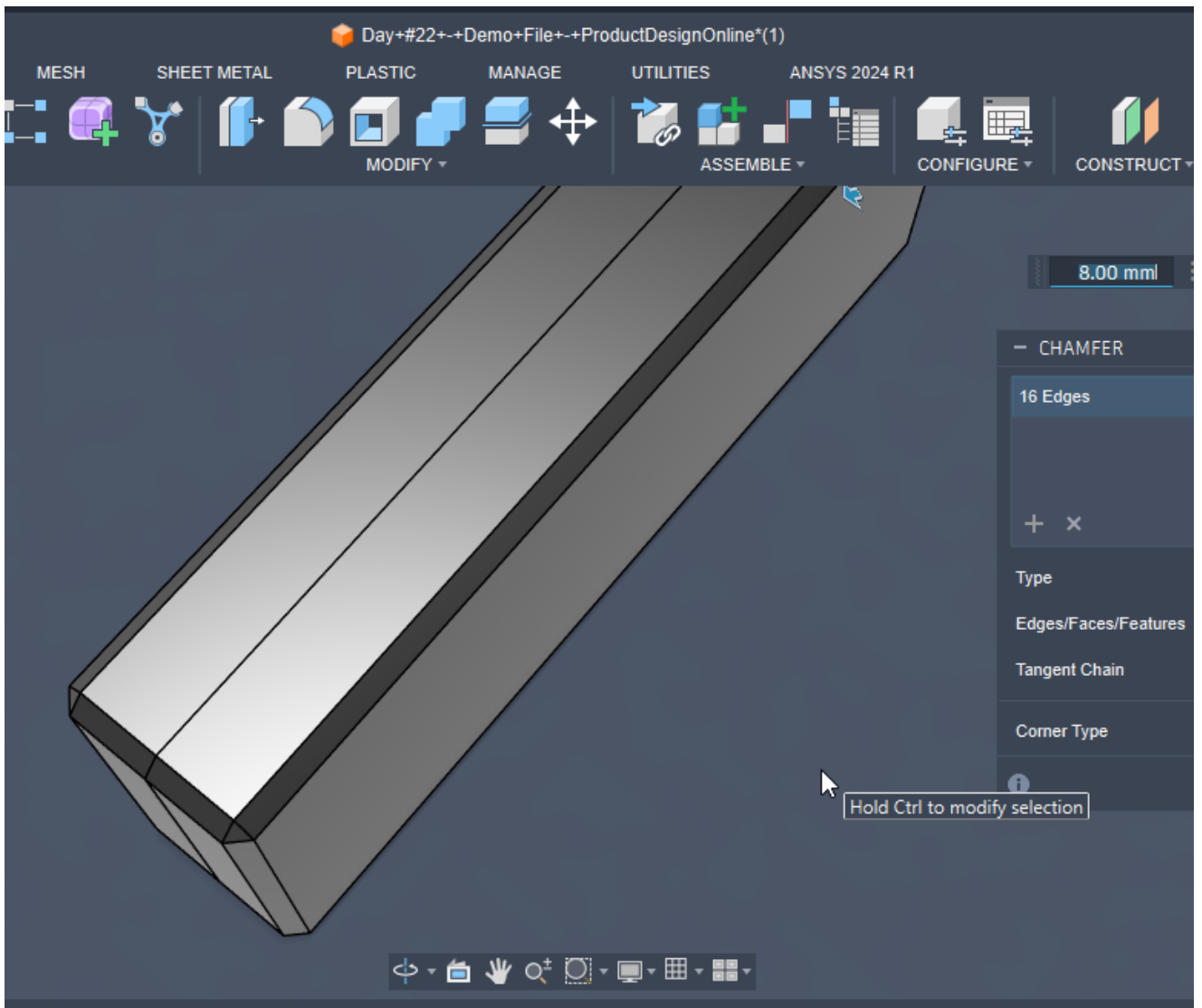
Create a sketch on the right body face.
 Draw a **circumscribed polygon** (8 mm).
 Add horizontal/vertical constraints.
 Extrude **8 mm**.



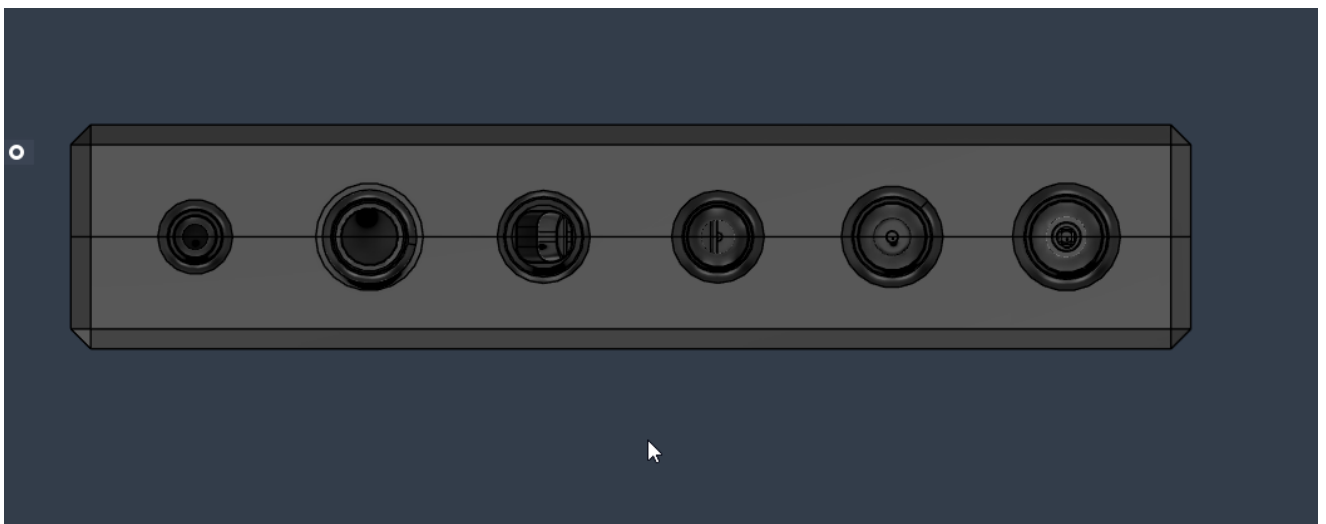
Use **Combine** again to create the registration mark on the left mold body.



Use **Offset Face** at **-0.075 mm** on the registration marks to add clearance for easier fitting.



Optional: Add **8 mm chamfers** to outer edges.



Done.