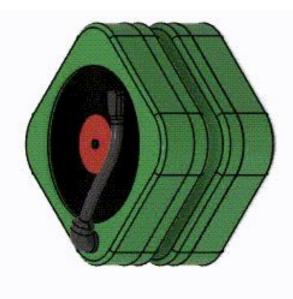




Current Design









Interference Design

0.01" interference on each side (0.02" in total) Interior ribs to prevent deformation of inner shell, focus deformation on outer shell



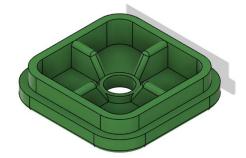


Interference Design

Attempted static simulations in Fusion360

0.04" caused failure in the corners of the top shell in, and very high assembly forces









Square Yo-yo

- Manufacturing a square yo-yo may present unique challenges
- We are addressing this through design and team organization

DESIGN to reduce risks

- Ribs to decrease deformation of parts
- Increased the length of contact for press fit
- Thermoformed parts will be circular

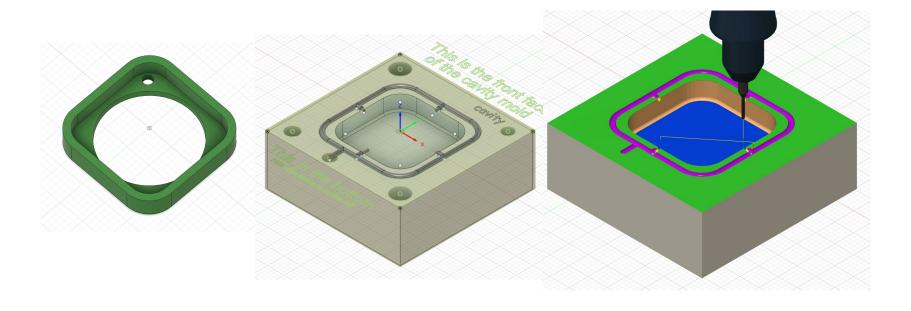
ORGANIZATION to equip us to address challenges

- Individual team members assigned to each mold half
- All versions of toolpaths logged in spreadsheet and saved in shared drive
- Maintaining itemized list of assigned action items each week





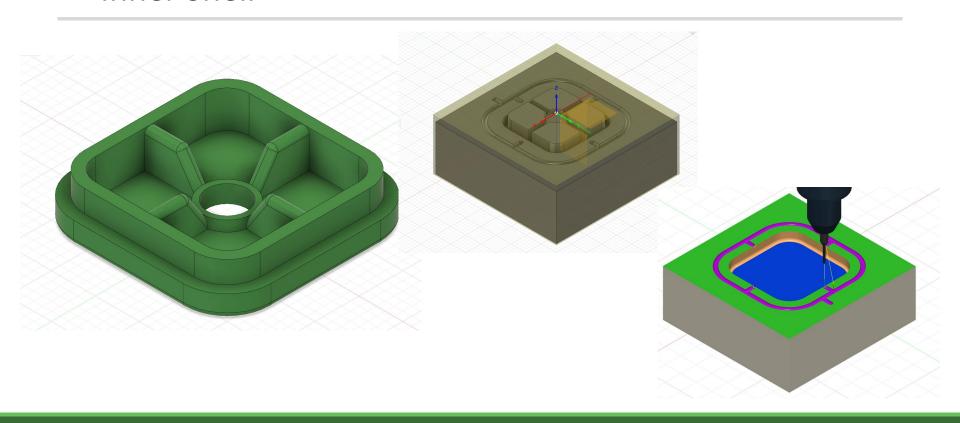
Top Shell







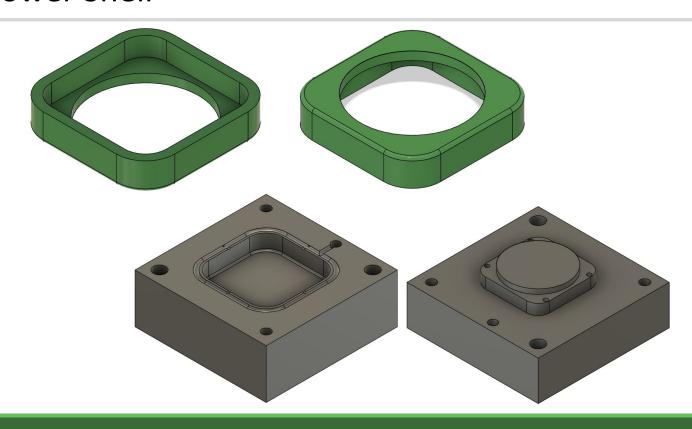
Inner Shell







Lower Shell







Record Arm

