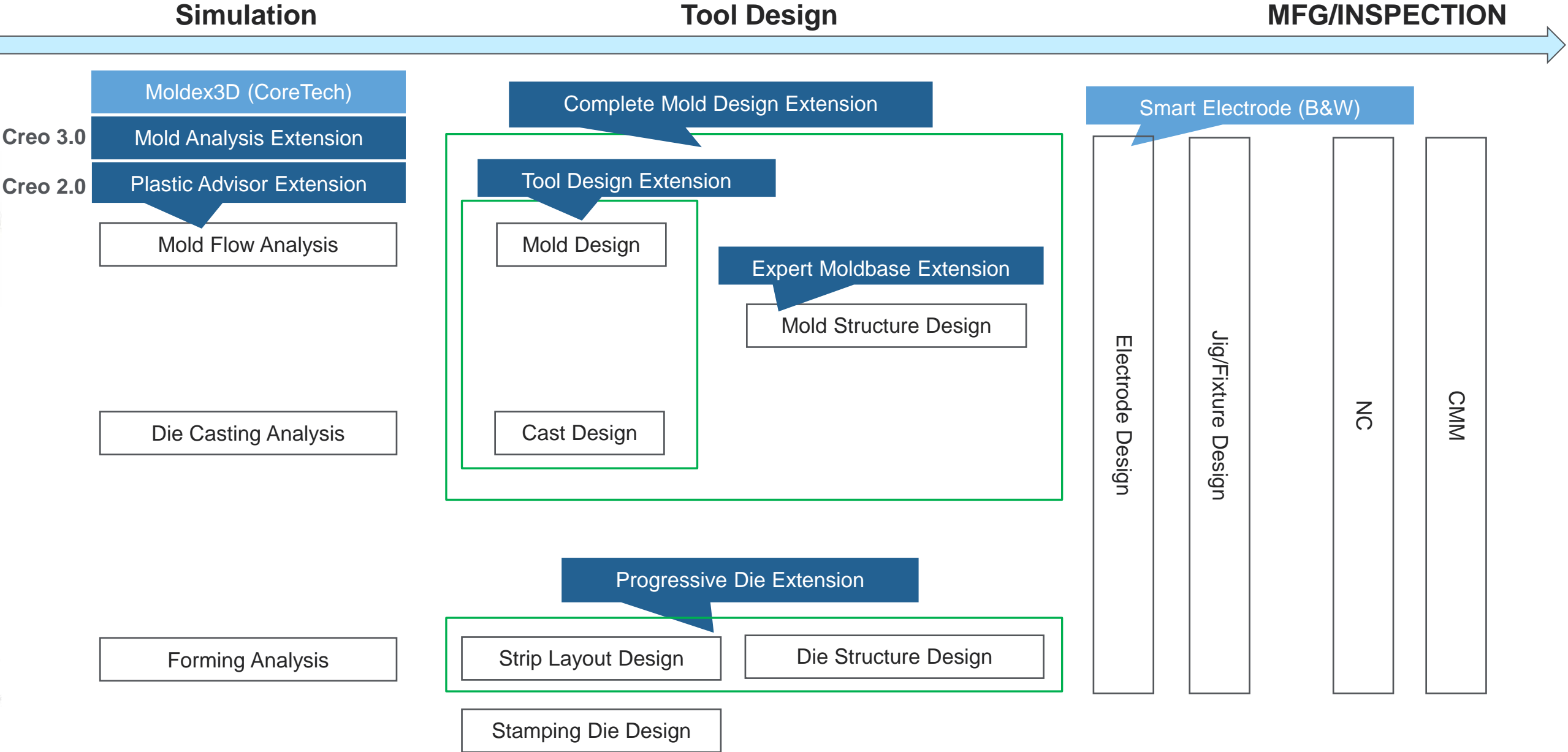
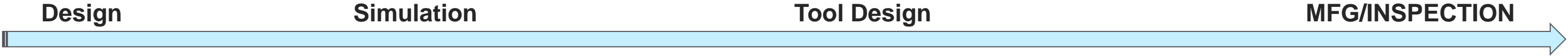


PTC Creo Mold/Cast Design

- Product Portfolio
- Key Investment Areas
- The Latest Enhancement Overview
- Product Roadmap
- Future Enhancements



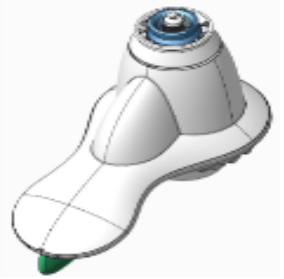


Partner Solution
PTC Solution

Key Investment Areas & The Latest Enhancement Overview

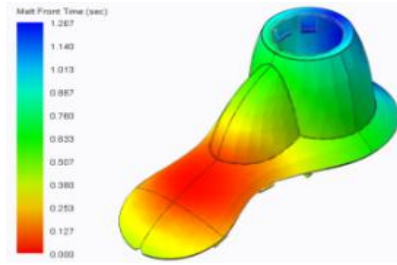
Key Investment Areas

Part Preparation



PTC Creo

DFM Validation

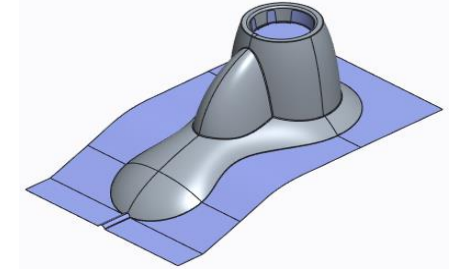


Mold Layout



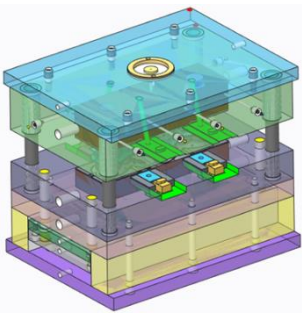
PTC Creo 2.0 PTC Creo 3.0

Parting



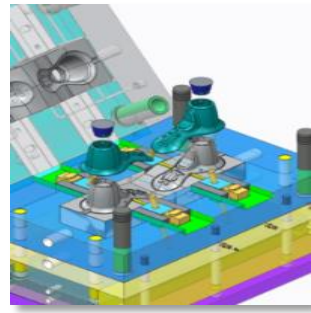
EMX 9.0

Design Validation

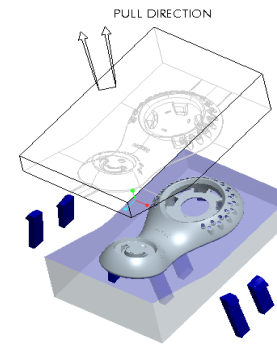


EMX 8.0 EMX 9.0

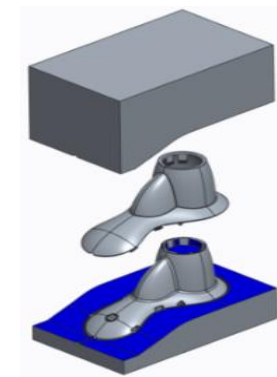
Moldbase Design



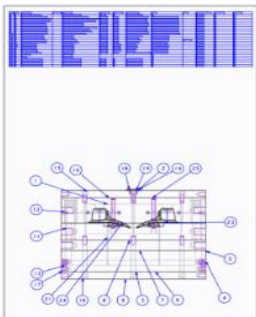
Detailed Design



Core/Cavity



Detailing & BOM



Creo 2.0 EMX 8.0 **Creo 3.0**

UI & Workflow

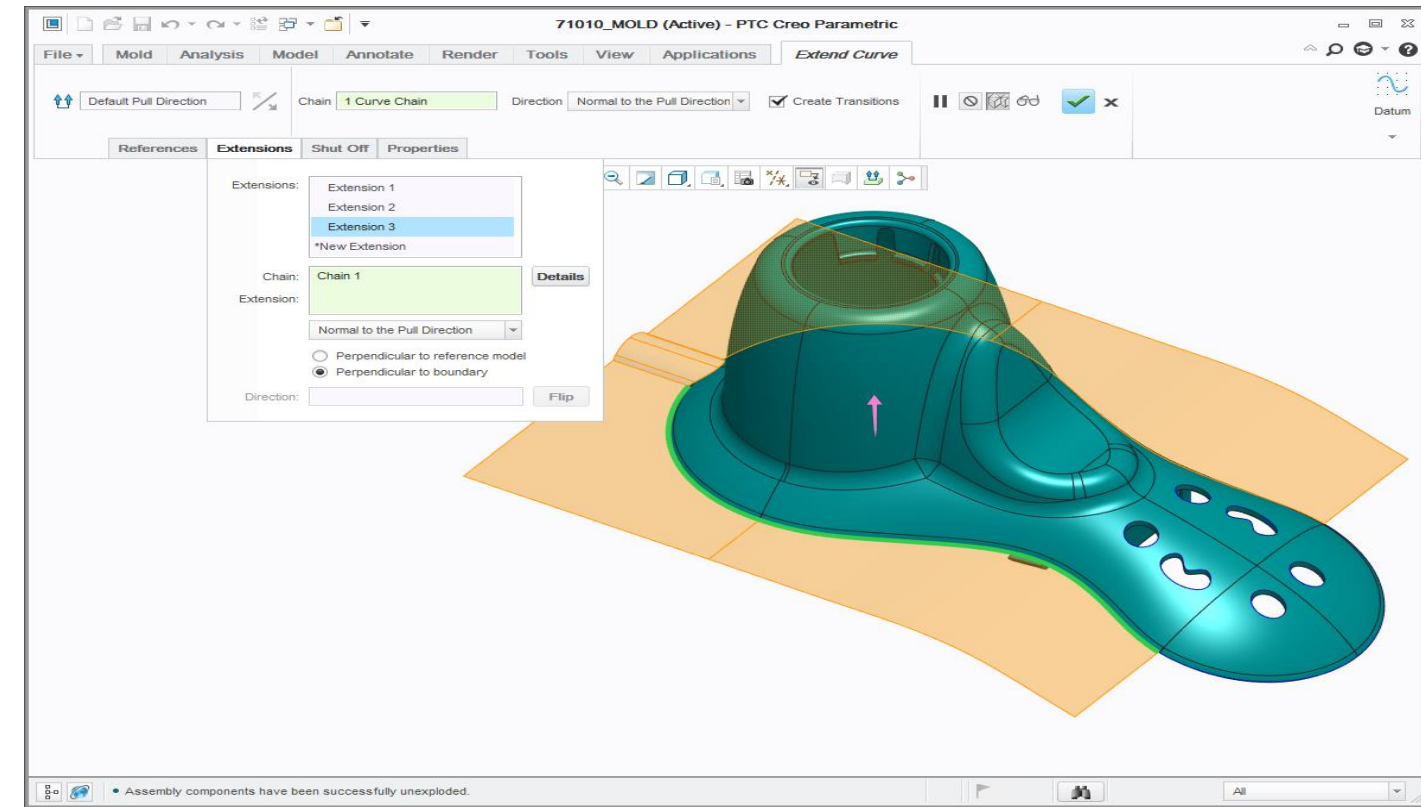
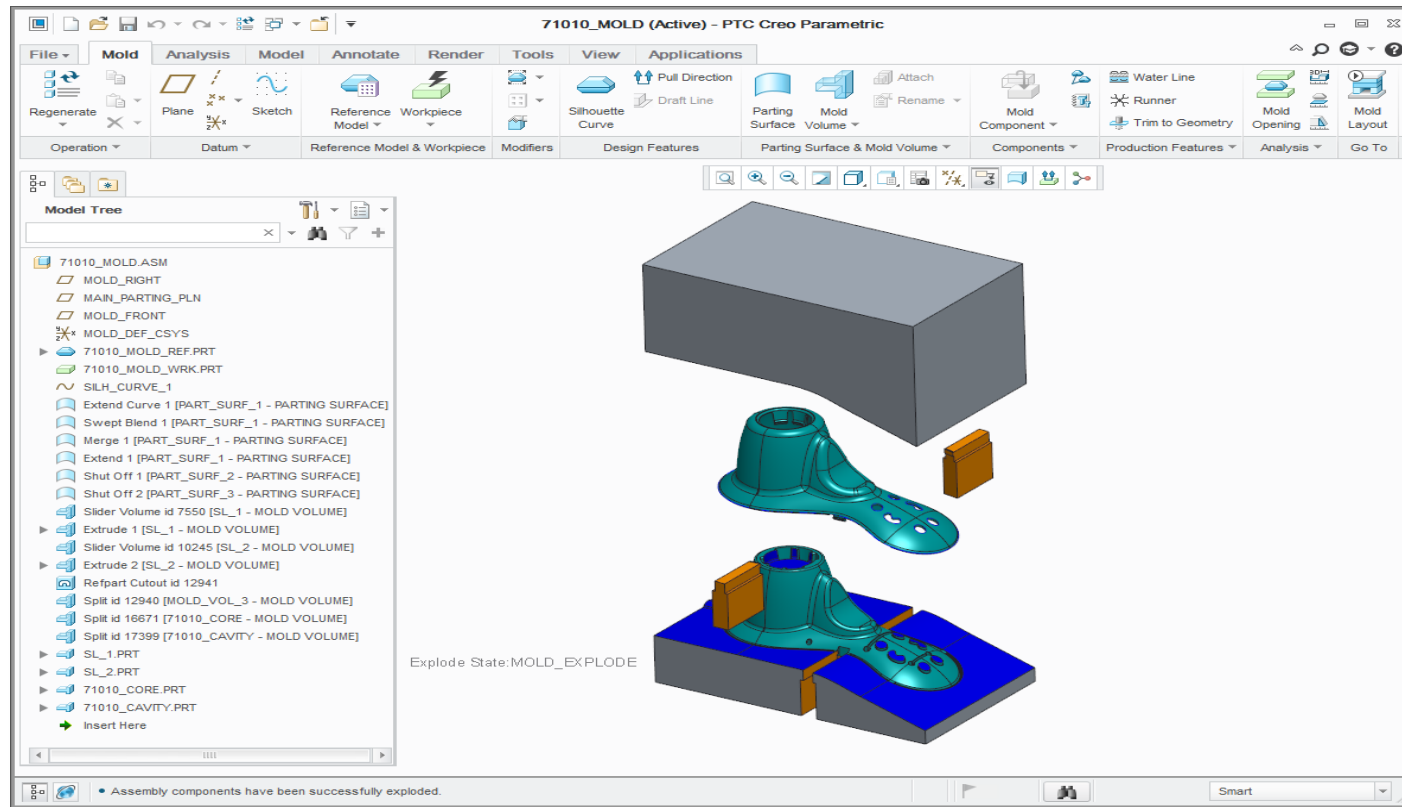
User Experience

- Ribbon

- Role based
- Process driven

- Dashboard

- Menu Manager removal



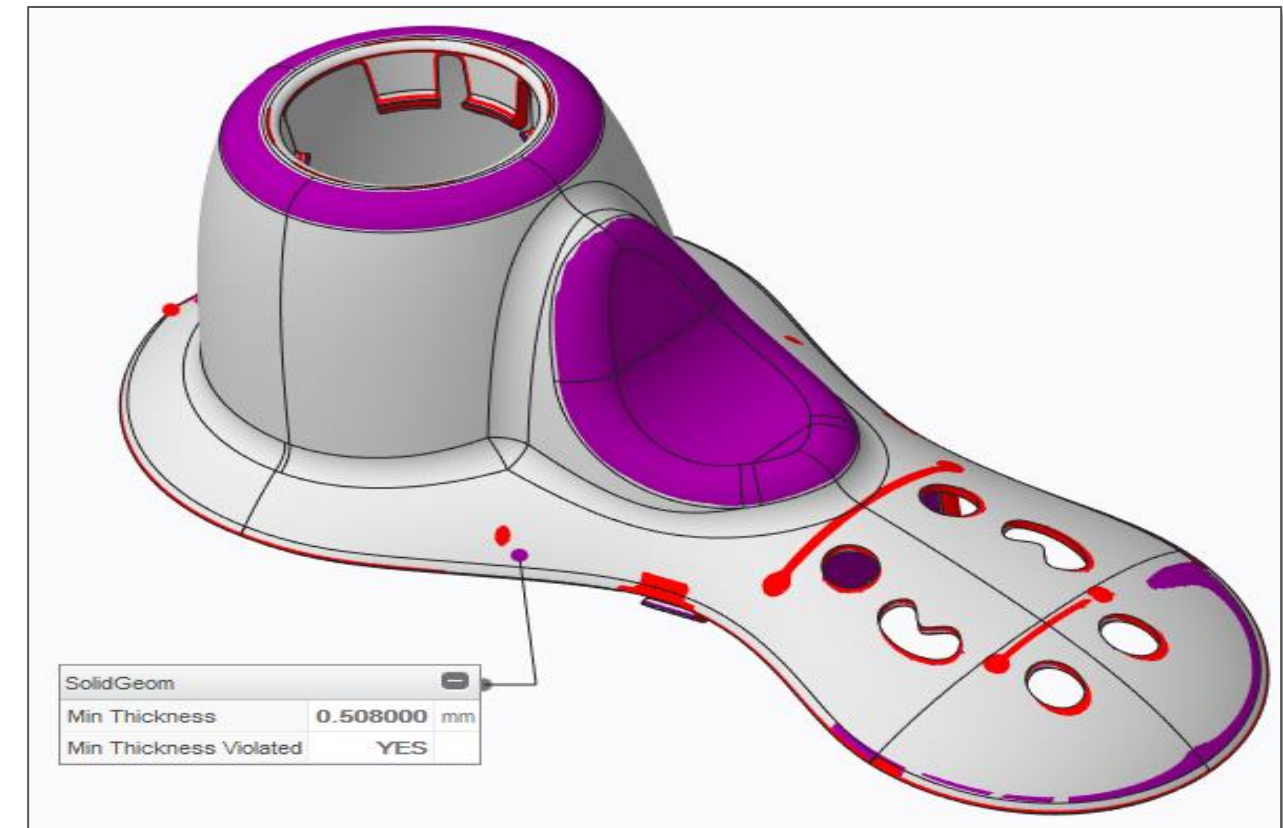
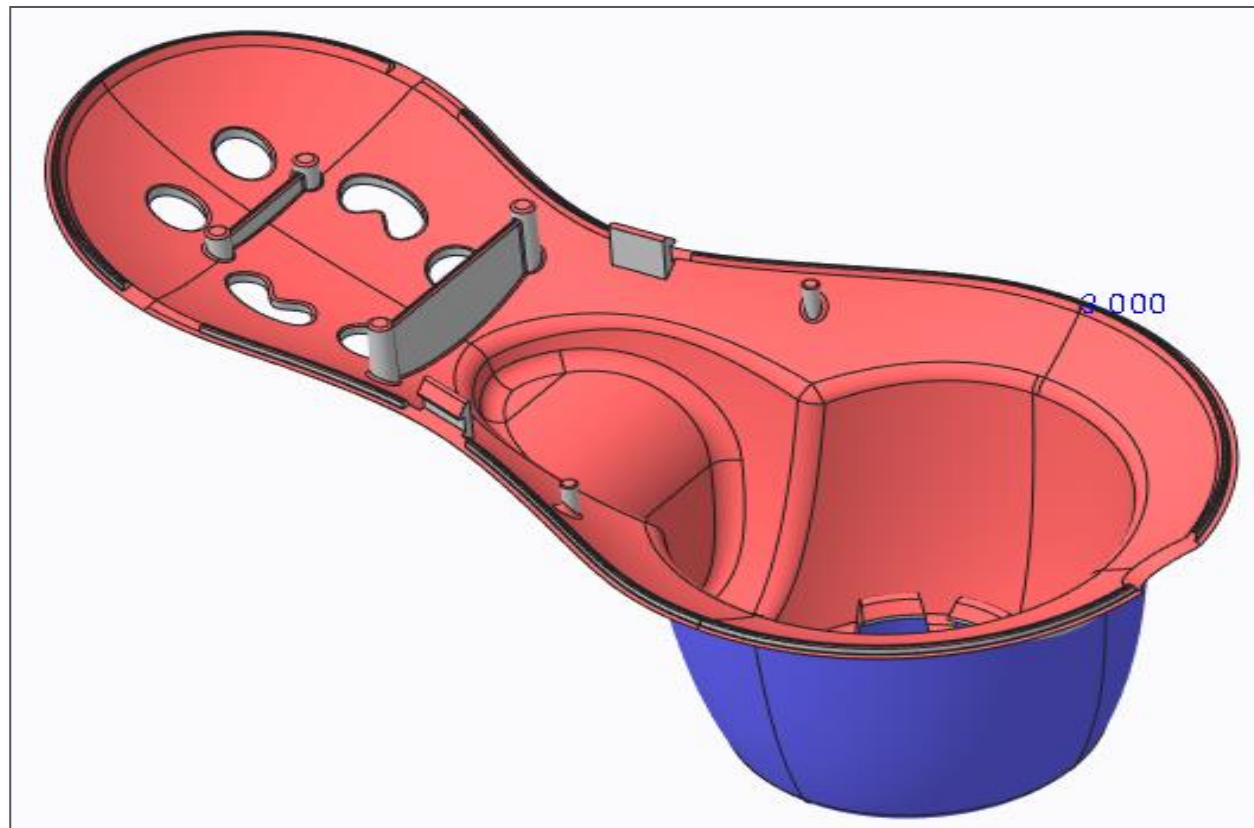
DFM Validation – Model Analysis

- **Draft Analysis**

- Support for 3-color plot
- Realistic result display

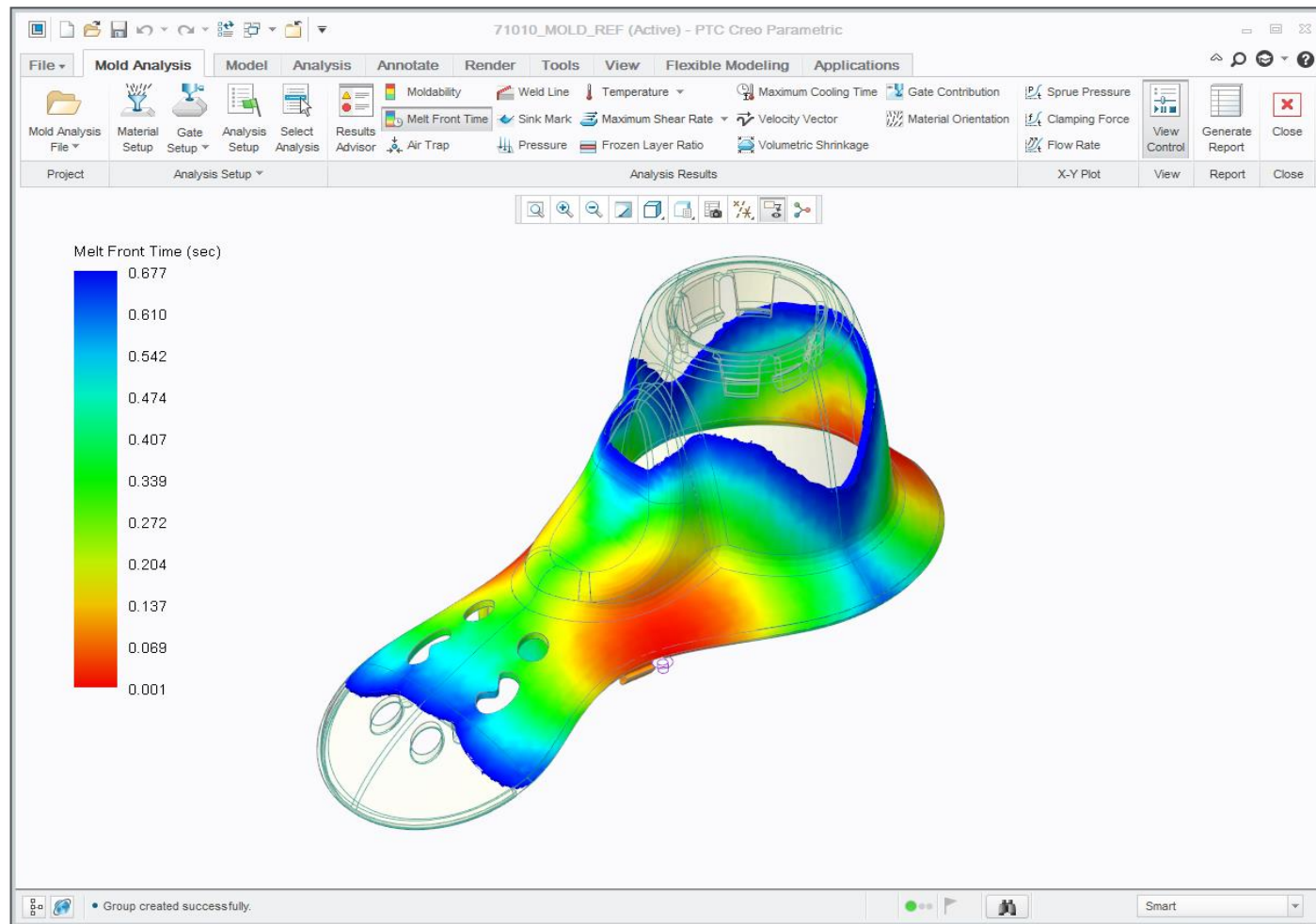
- **3D Thickness Check**

- Check thick and thin walls
- Refine result display with post-processing

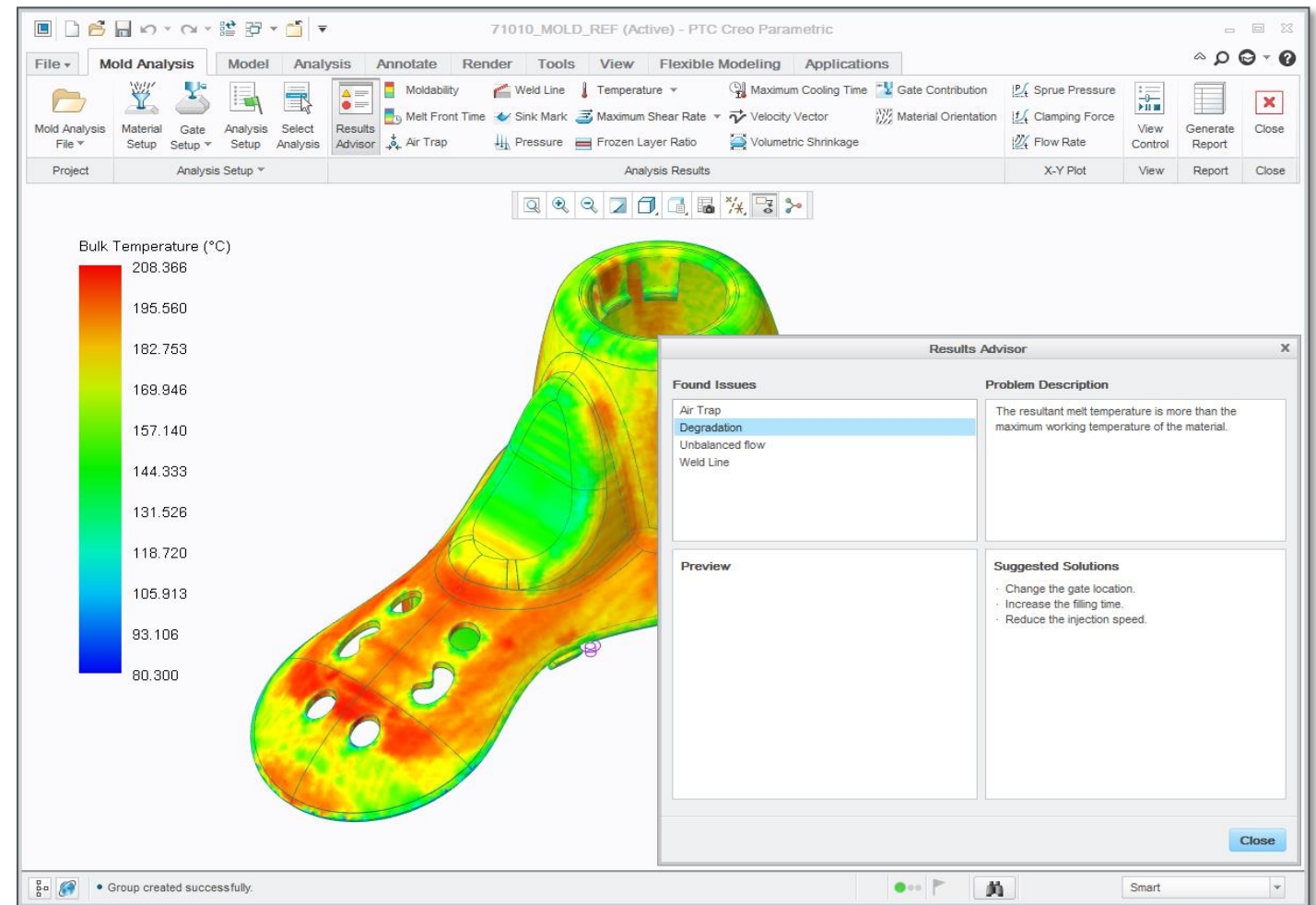


DFM Validation – Mold Filling Simulation

- Injection Molding Simulation



- Advice to Eliminate Molding Issues



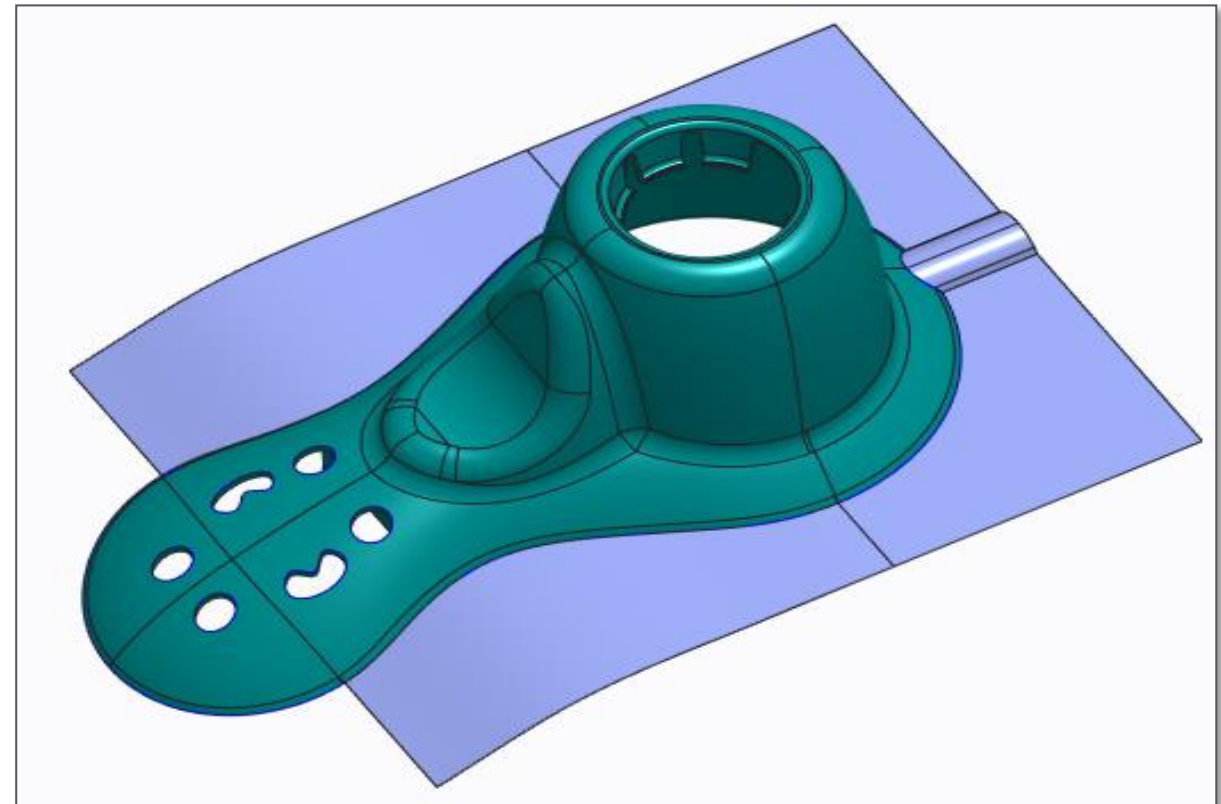
Parting Design

- Shut off Surface
 - Cap holes on model



Feature No.	
General Surface	16
Shut Off Surface	2

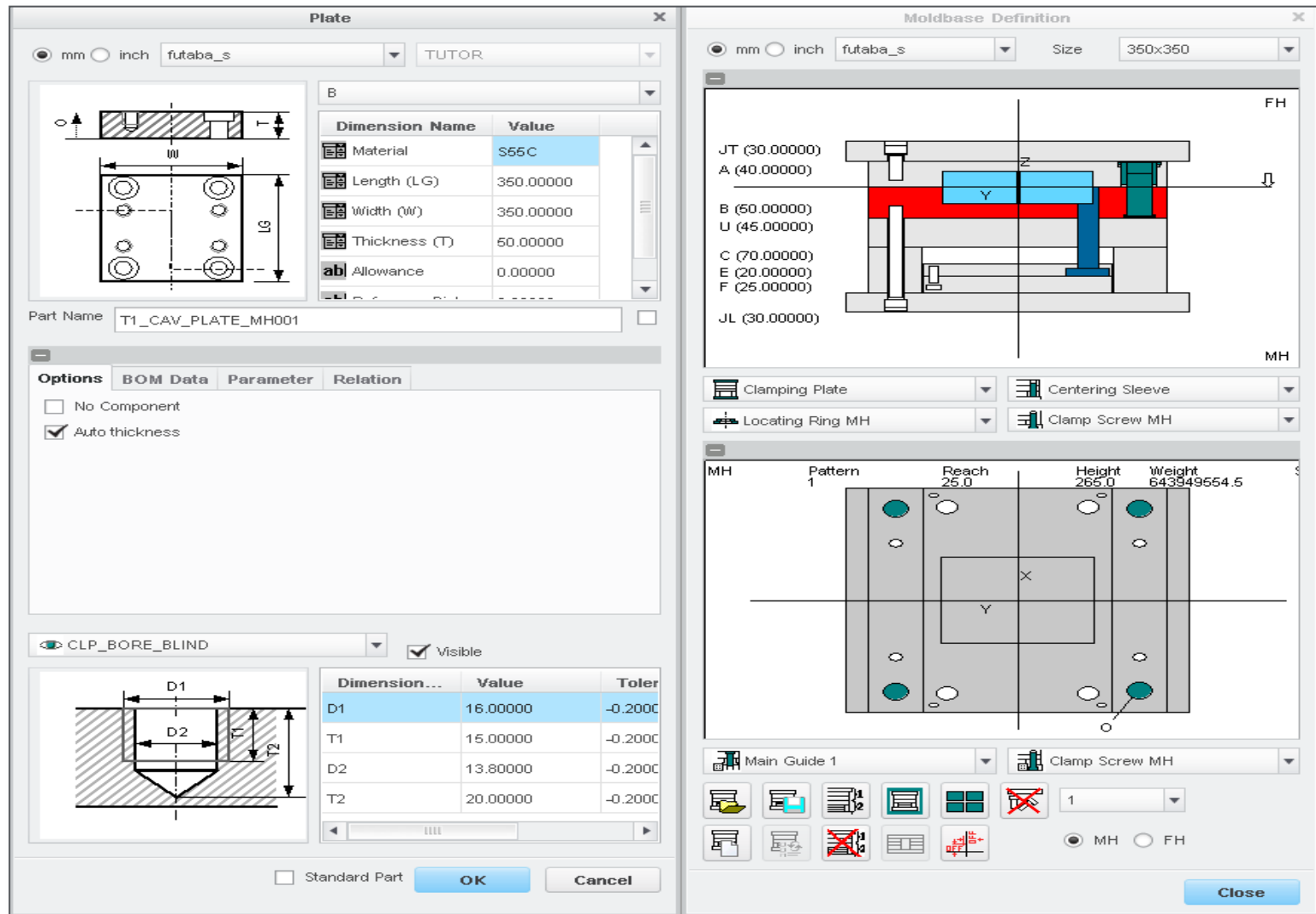
- Extend Curve Surface
 - Advanced parting surface



Feature No.	
Skirt Surface	6
Extend Curve Surface	1

Moldbase Design

- Build-in Design Rules



(No Support Plate)

- A Plate thickness \geq (Cut depth FH)*1.5
- B Plate thickness \geq (Cut depth MH)*2

(With Support Plate)

- B Plate thickness \geq (Cut depth MH)*1.5

Rule for screw length (18 series) :

Screw Length = Thickness of EJ Plate + 1mm

Rule for screw length (27 series) :

Screw Length = Thickness of EJ Plate

Rule for bolt length (Bolt diameter < 20mm) :

Bolt Length = Summation of all the plates go through by the bolt + 5mm

Bolt diameter = 14mm & Thickness of A Plate = 25mm :

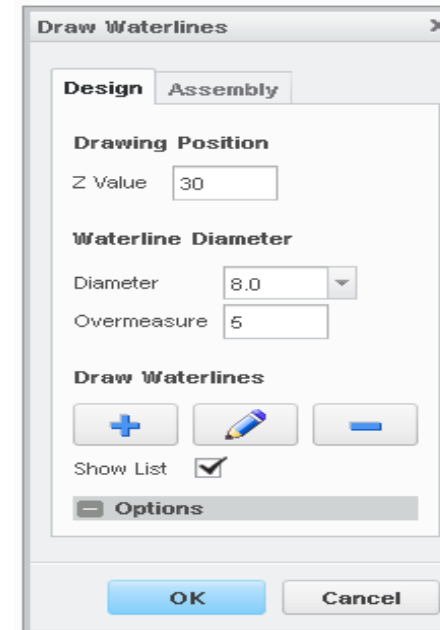
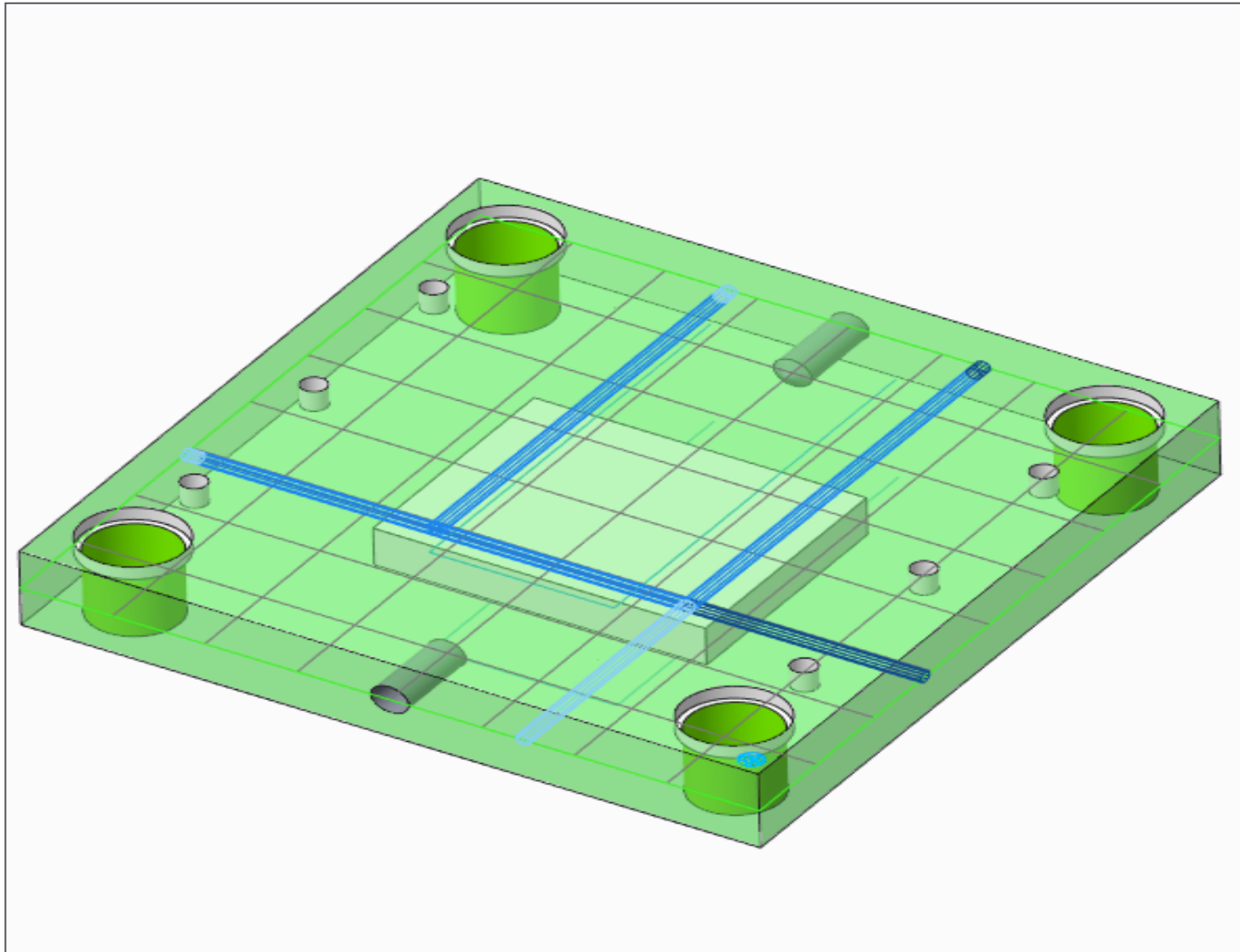
Bolt Length = Thickness of Top Clamp Plate + 2mm

Bolt diameter = 14mm & Thickness of B Plate = 25mm :

Bolt Length = Thickness of Bottom Clamp Plate + Spacer Block + Support Plate + 2mm

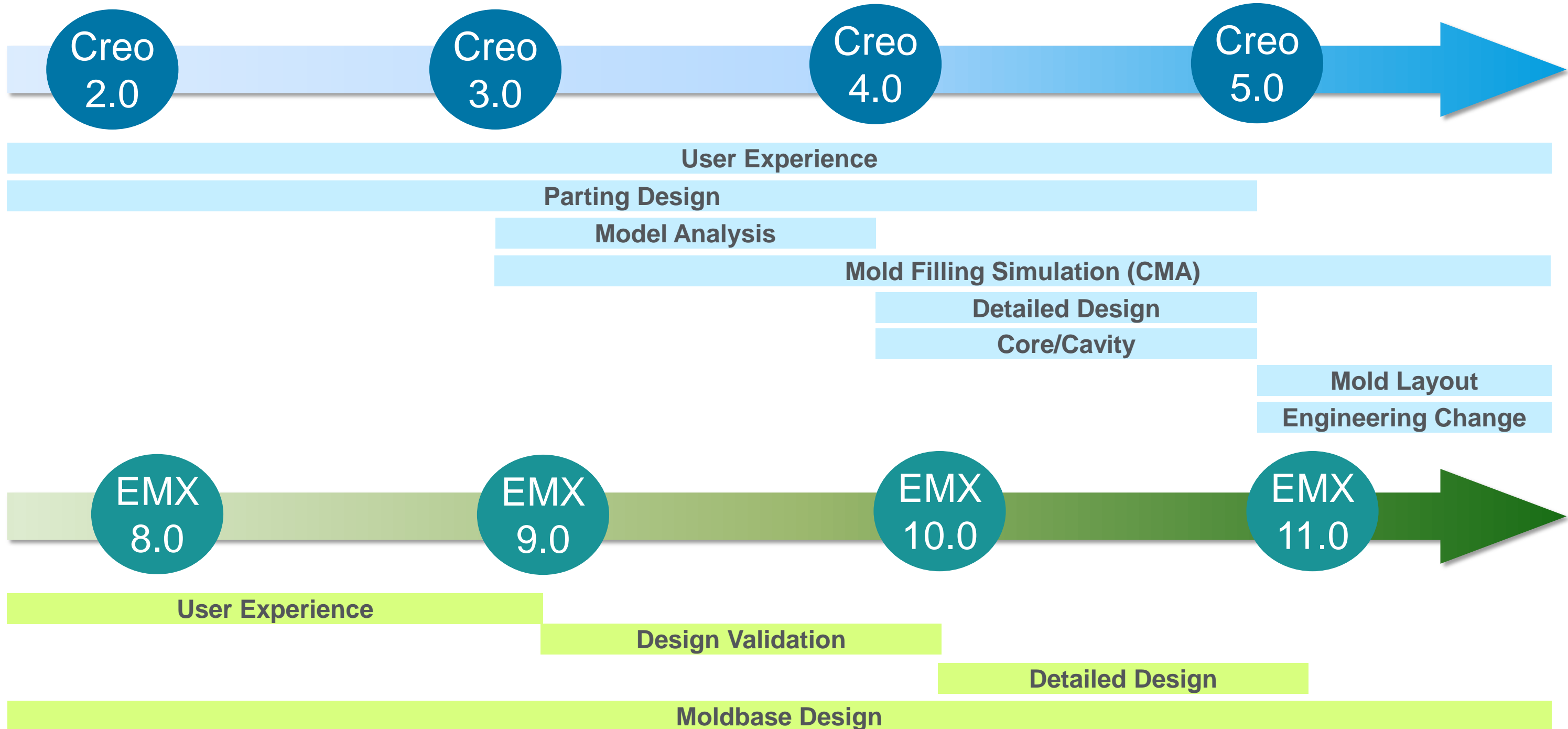
Moldbase Design

- 3D Cooling Channel Design
 - Free hand sketching



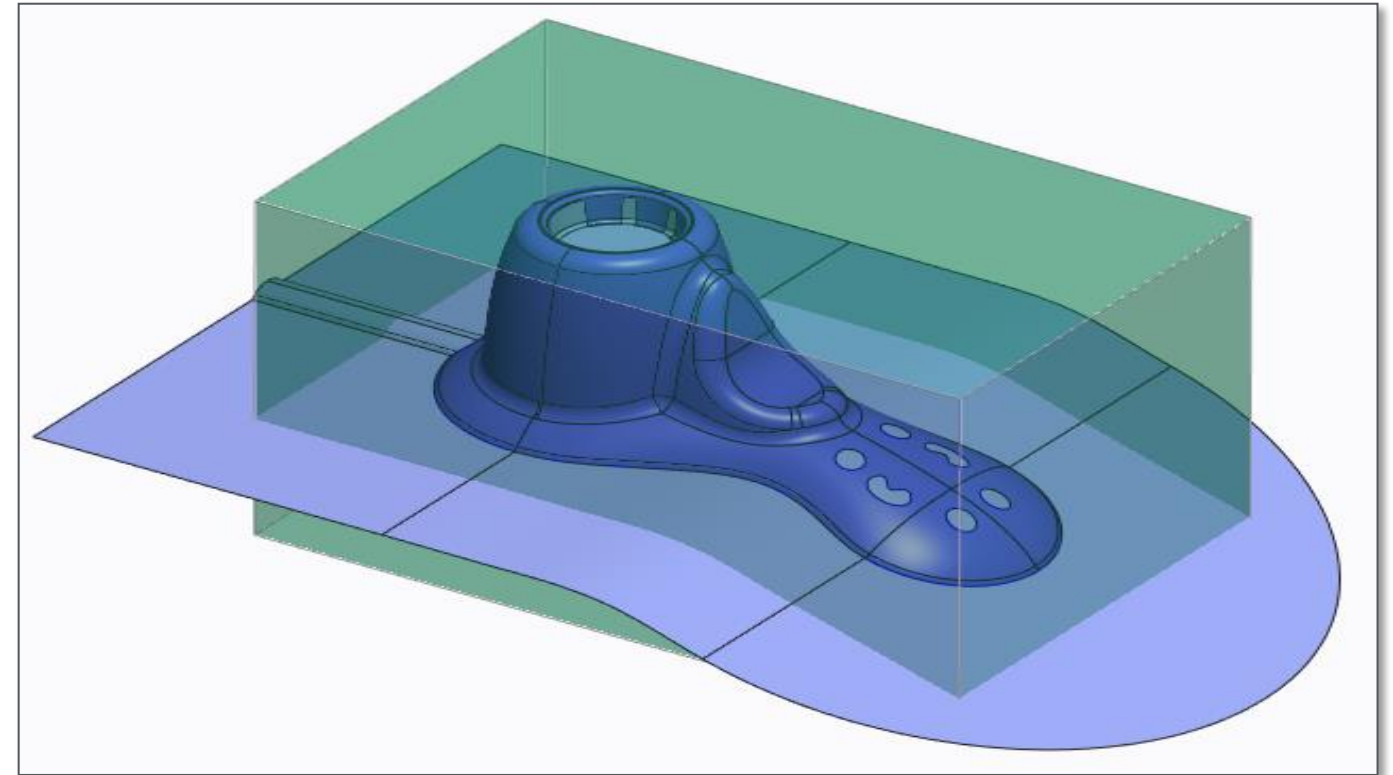
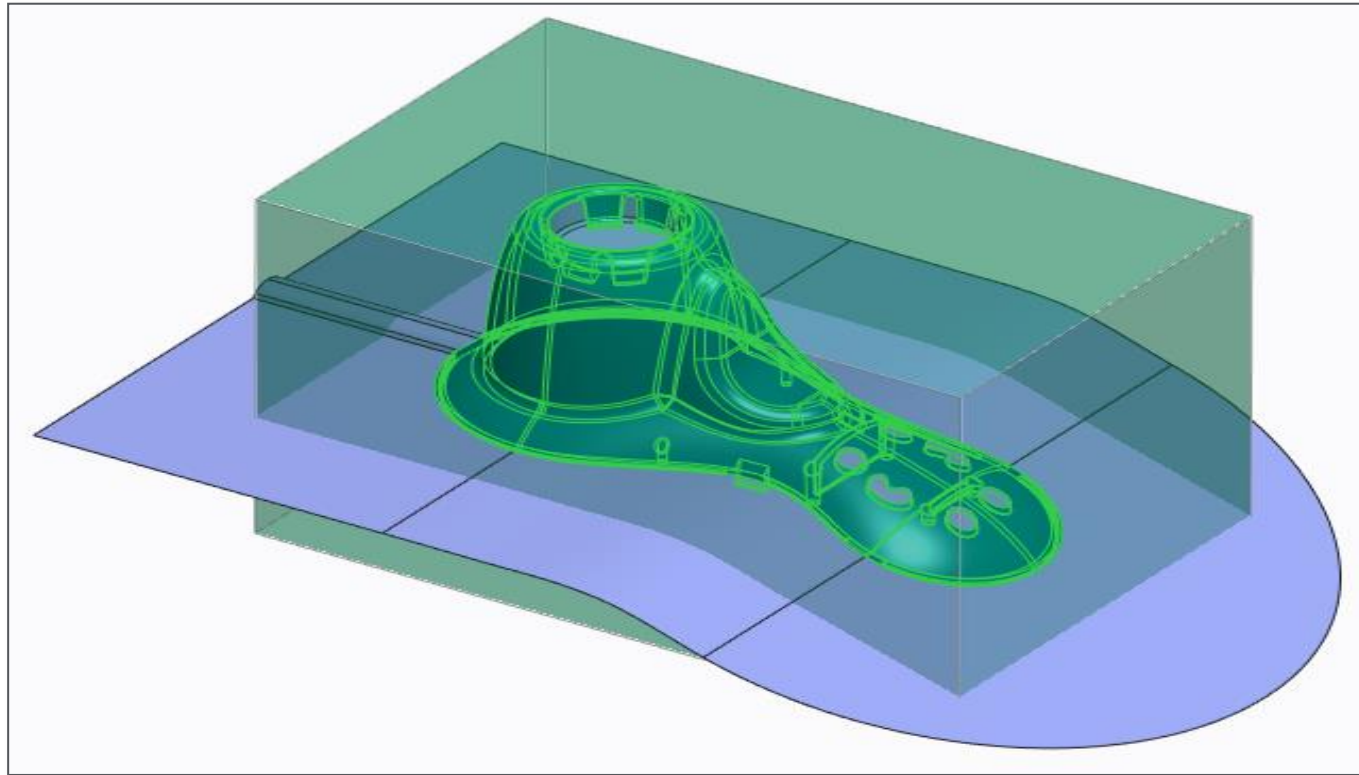
Part# Start	Y/N Start	ID	Diameter	Y/N End	Part# End
E2074/8/10		10002	8		E2074/8/10
E2074/8/10		10003	8		E2074/8/10
E2074/8/10		10004	8		E2074/8/10

Product Roadmap & Looking Forward



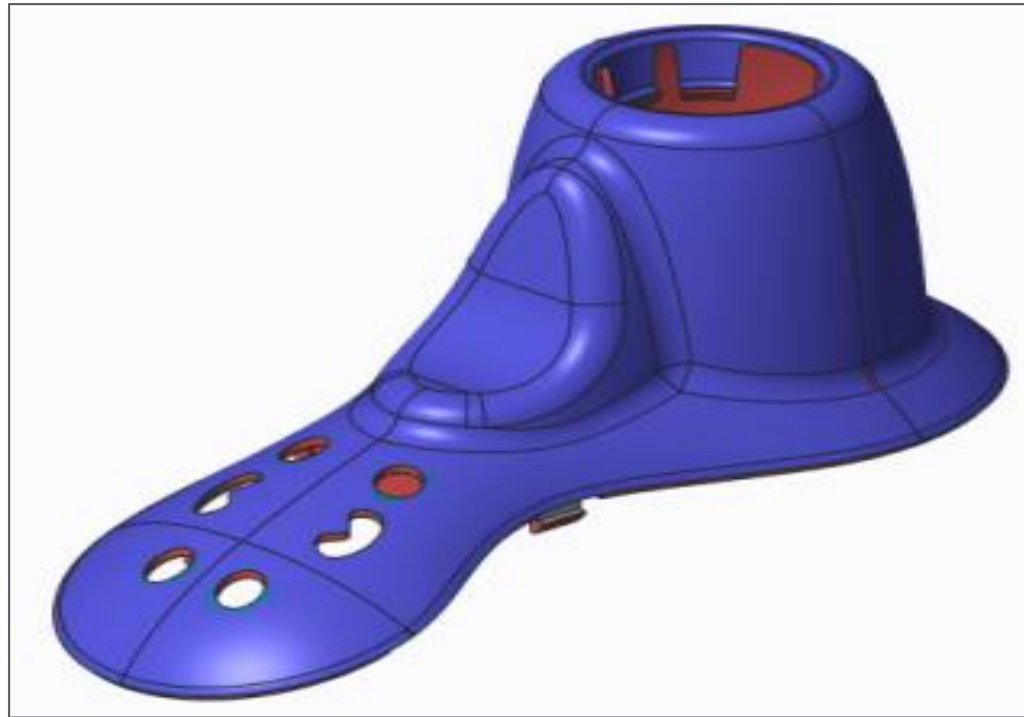
New Core/Cavity Design Workflow

- **Mold Split (Present)**
 - Splitting workpiece or volume
- **Shape Volume (New)**
 - Create volume with surfaces



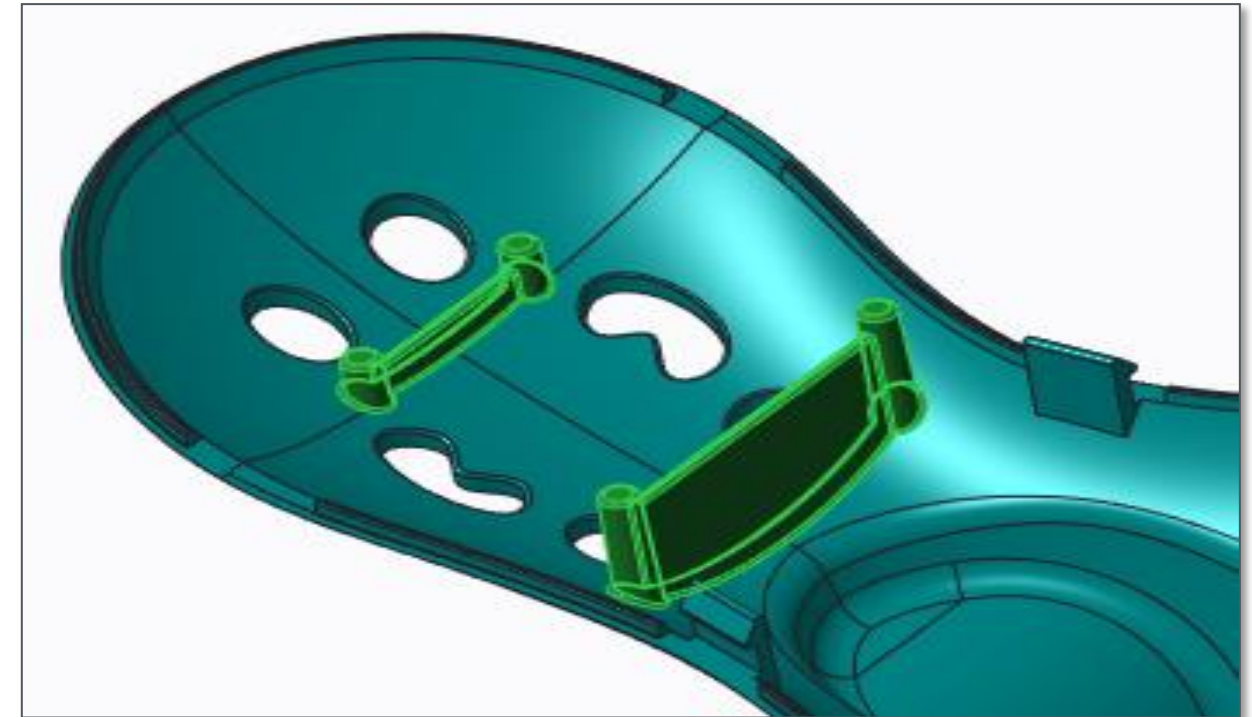
Surface Collection

- Collect surfaces based on pull direction



	Mouse Clicks
Individual Surfaces	66
Seed & Boundary Surfaces	42
Parting Split Surfaces	1

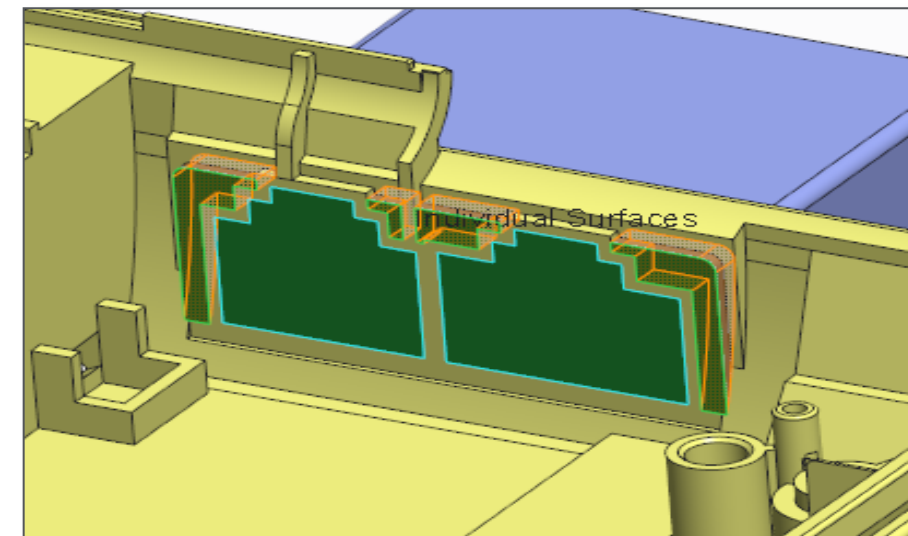
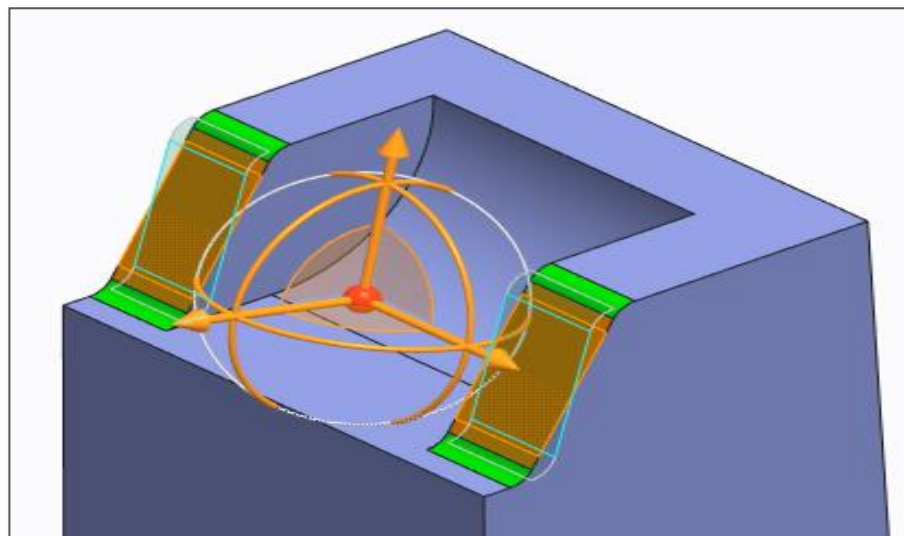
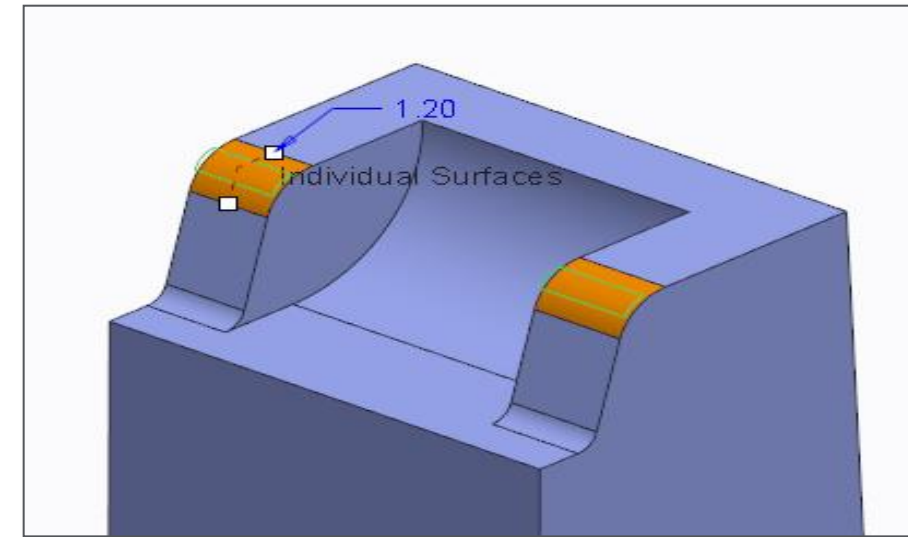
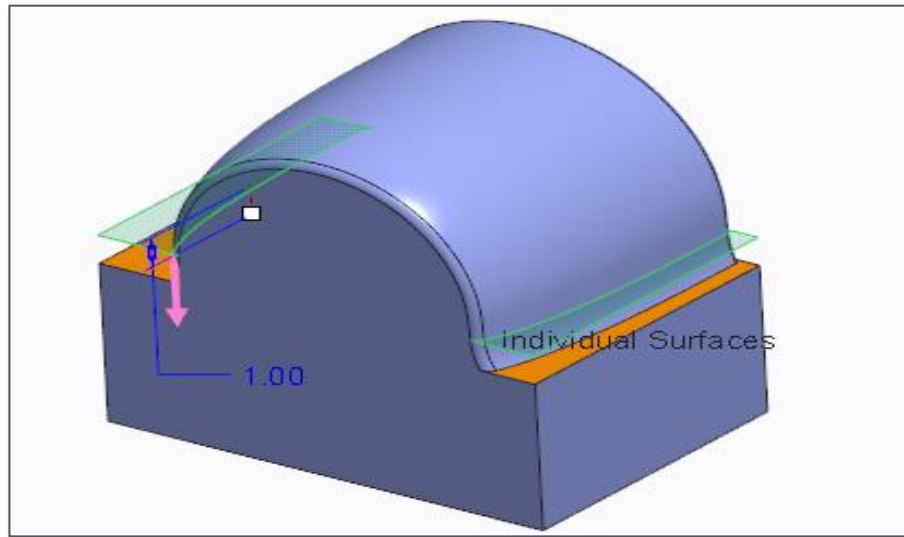
- Collect surface based on shape



	Mouse Clicks
Individual Surfaces	76
Seed & Boundary Surfaces	39
Shape Surfaces (bosses)	4

Direct Modeling

- Make explicit modifications to selected geometry directly



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