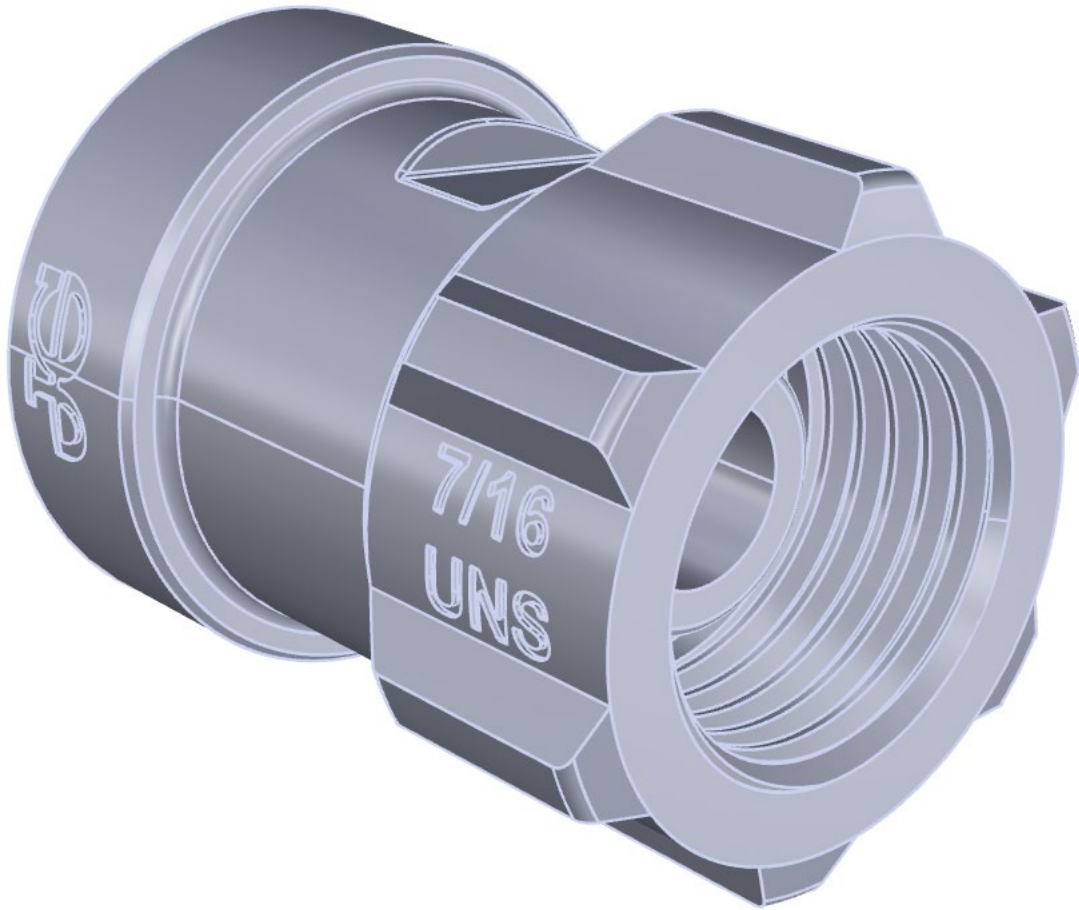




# Design For Manufacturing

2026.09.04

# Outlines

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## Description and Proposal

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- ▶ **General Information**
- ▶ **Gate location**
- ▶ **Tooling size and cavity layout**
- ▶ **Ejector pin location**
- ▶ **Parting Line Analysis**
- ▶ **Draft analysis**
- ▶ **Mold Structure**

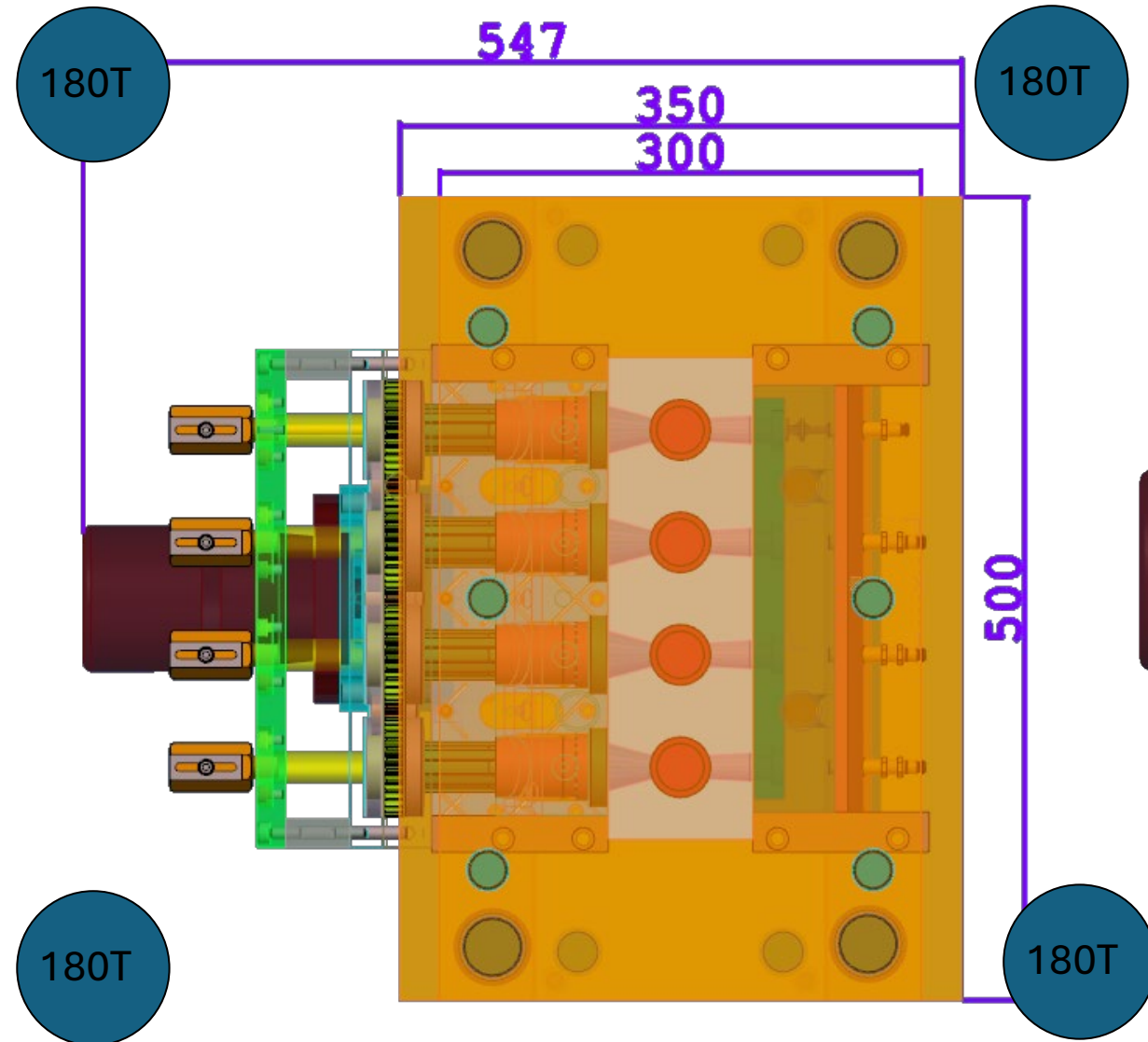
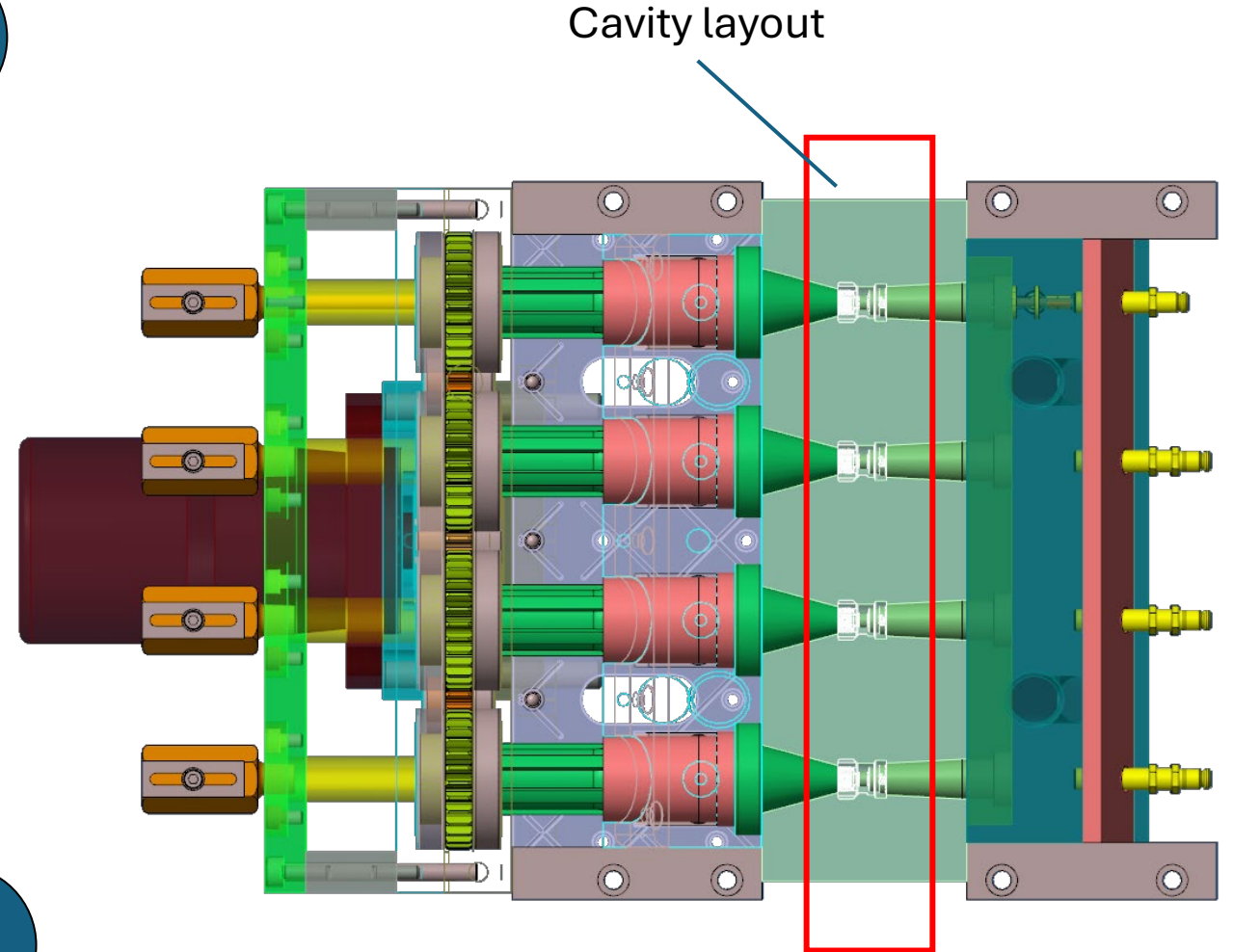
# General Information

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|                        |                                                       |
|------------------------|-------------------------------------------------------|
| Customer Name          | RWC                                                   |
| Part Name              | 1/4" x 7/16 UNS TAP ADAPTOR BODY                      |
| Material               | POLYPROPYLENE 25% MINERAL FILLED                      |
| Shrinkage              | 13/1000                                               |
| Part No.               | CPP-45JU7F-01                                         |
| Cavities               | 1*4Cav.                                               |
| Injection concept      | Hot Runner System 4 drops for 4 Cav. open gate (YUDO) |
| Cavity Steel           | Finkl D2 Tool Steel / 56~59 HRC                       |
| Core Steel             | Finkl D2 Tool Steel / 56~59 HRC                       |
| Number of slider       | 2                                                     |
| Number of lifter       | N/A                                                   |
| Injection machine Type | 180TON (Recommended value)                            |
| Tool supplier          | Gateway Corp.                                         |
| Designer               | Robin / Ben                                           |
| Proposal version       | 2026-09-04                                            |

# Tooling size and cavity layout

## Description and Proposal

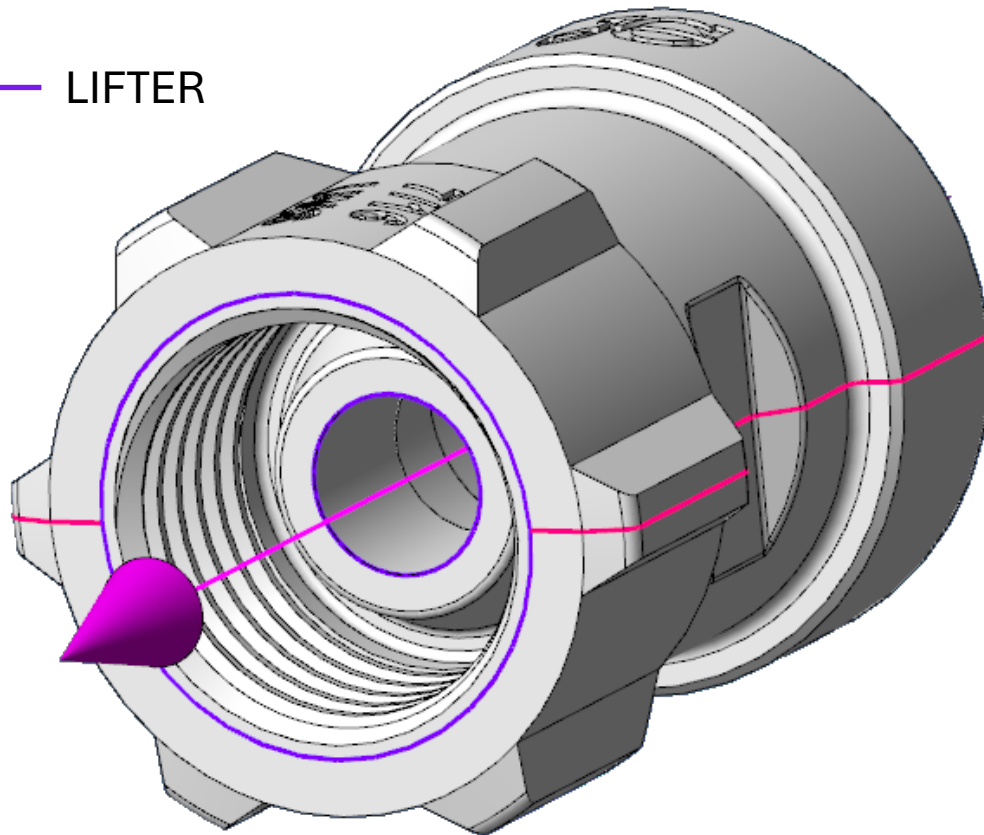
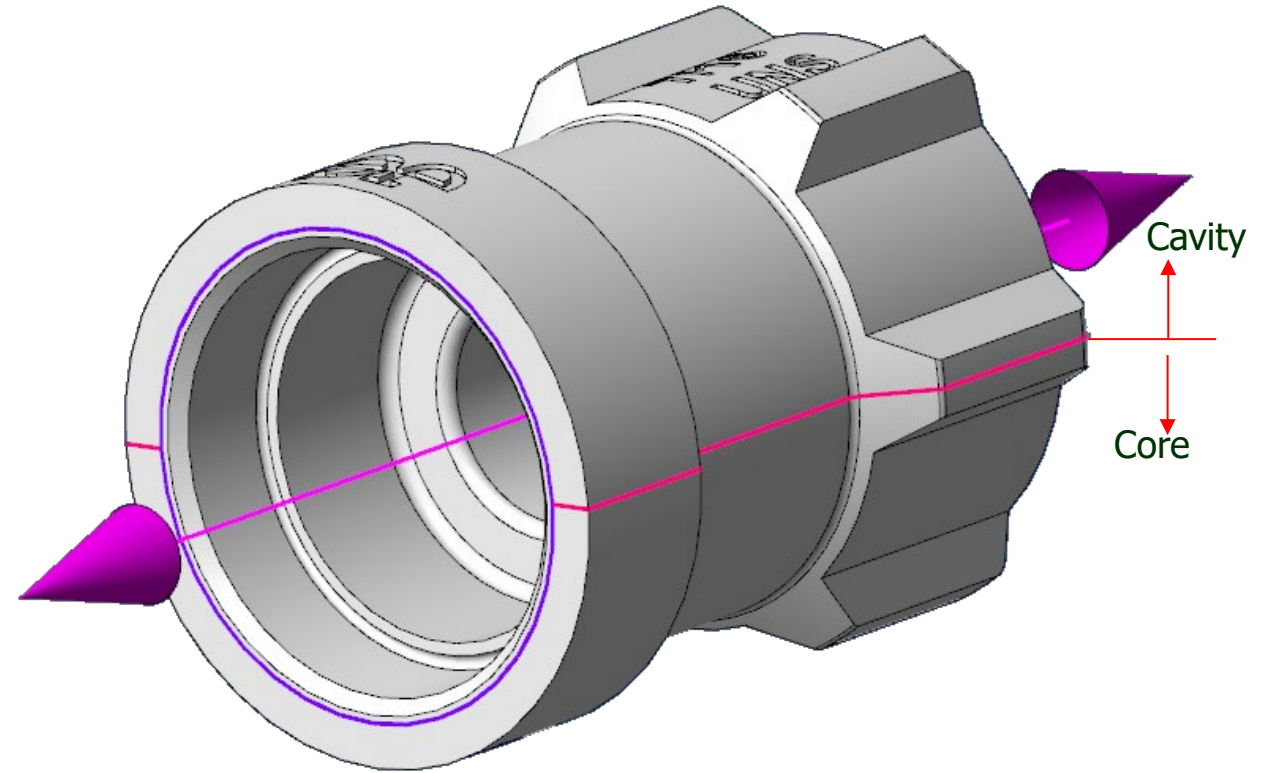


# Parting Line Analysis

Parting line / Lifter

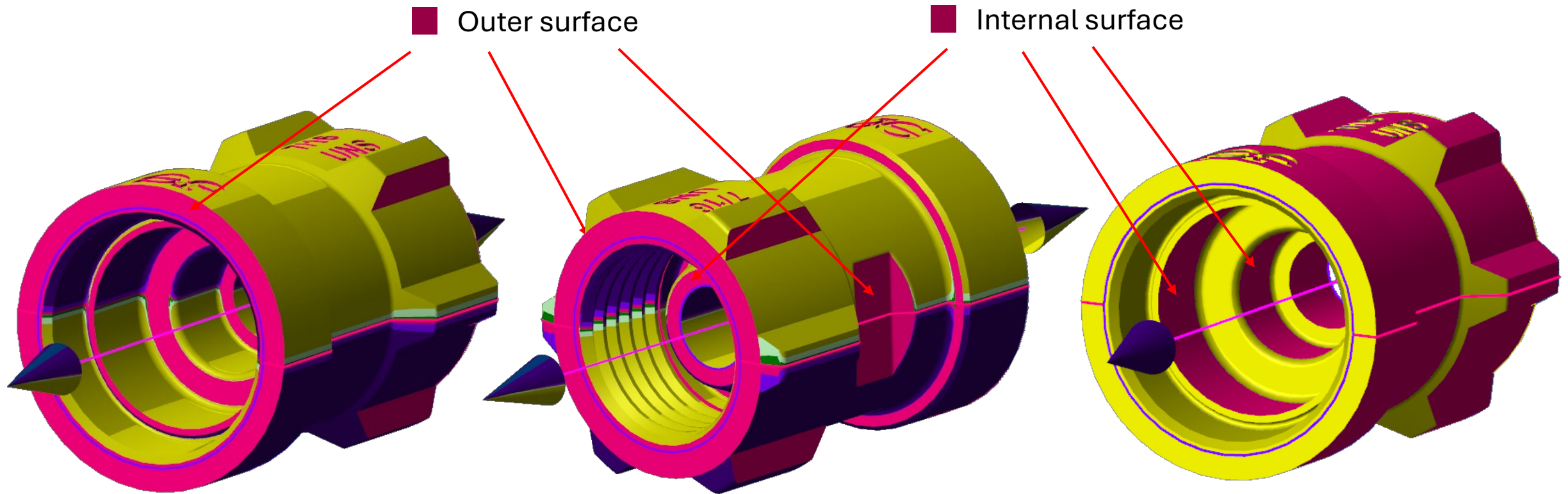
— P.L

— LIFTER



# Draft Analysis

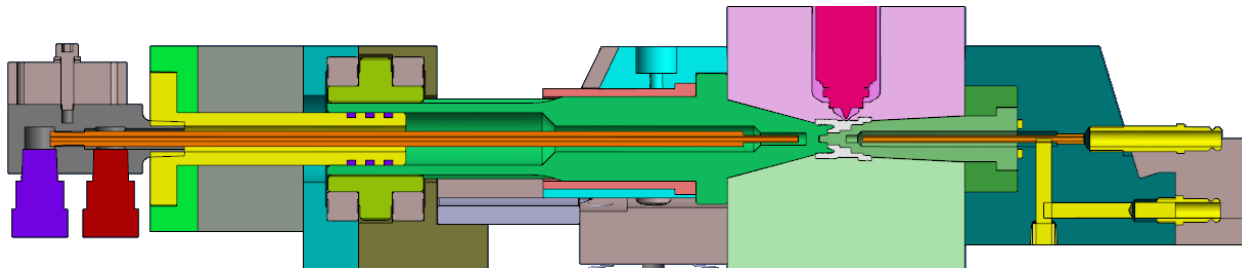
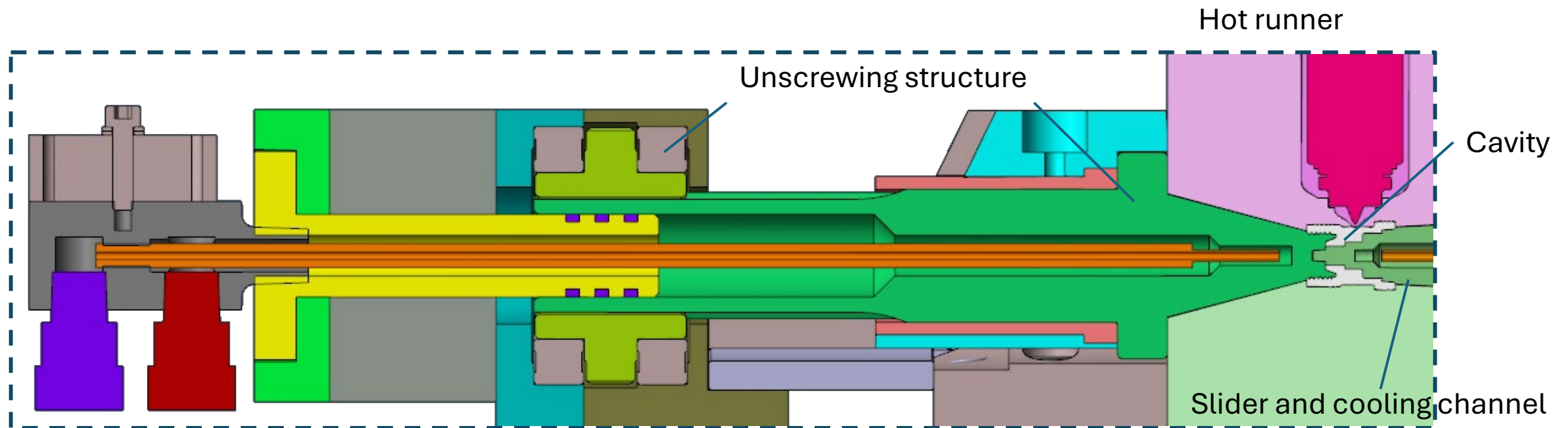
## Description and Proposal



The red surfaces shows no draft angle for model. We suggest adding a **1° draft** to avoid drag marks during ejection. Please review and confirm your approval.

# Mold Structure

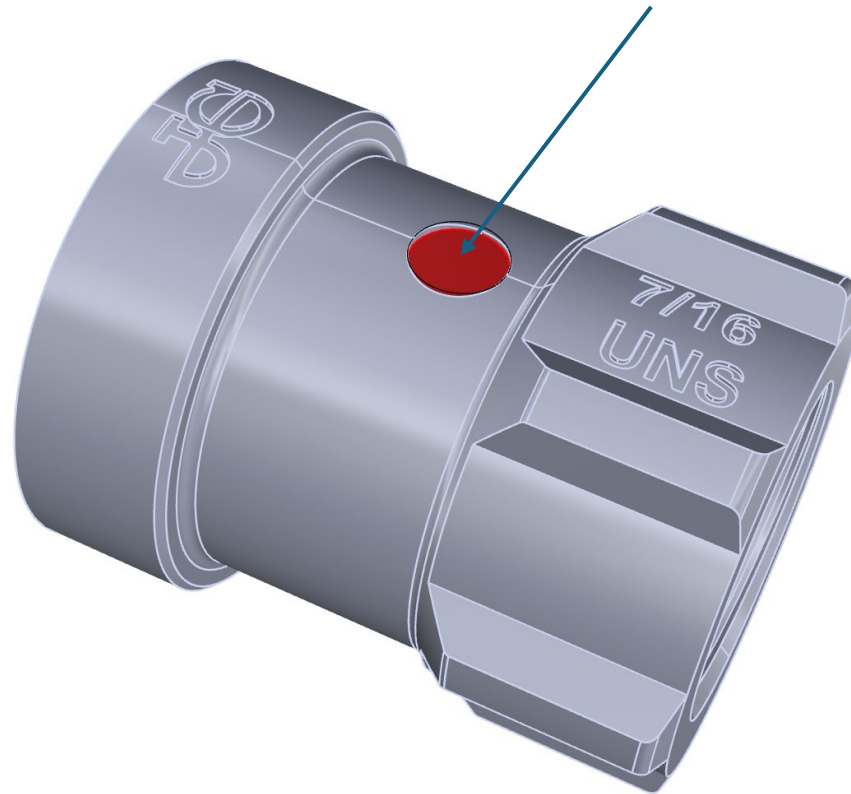
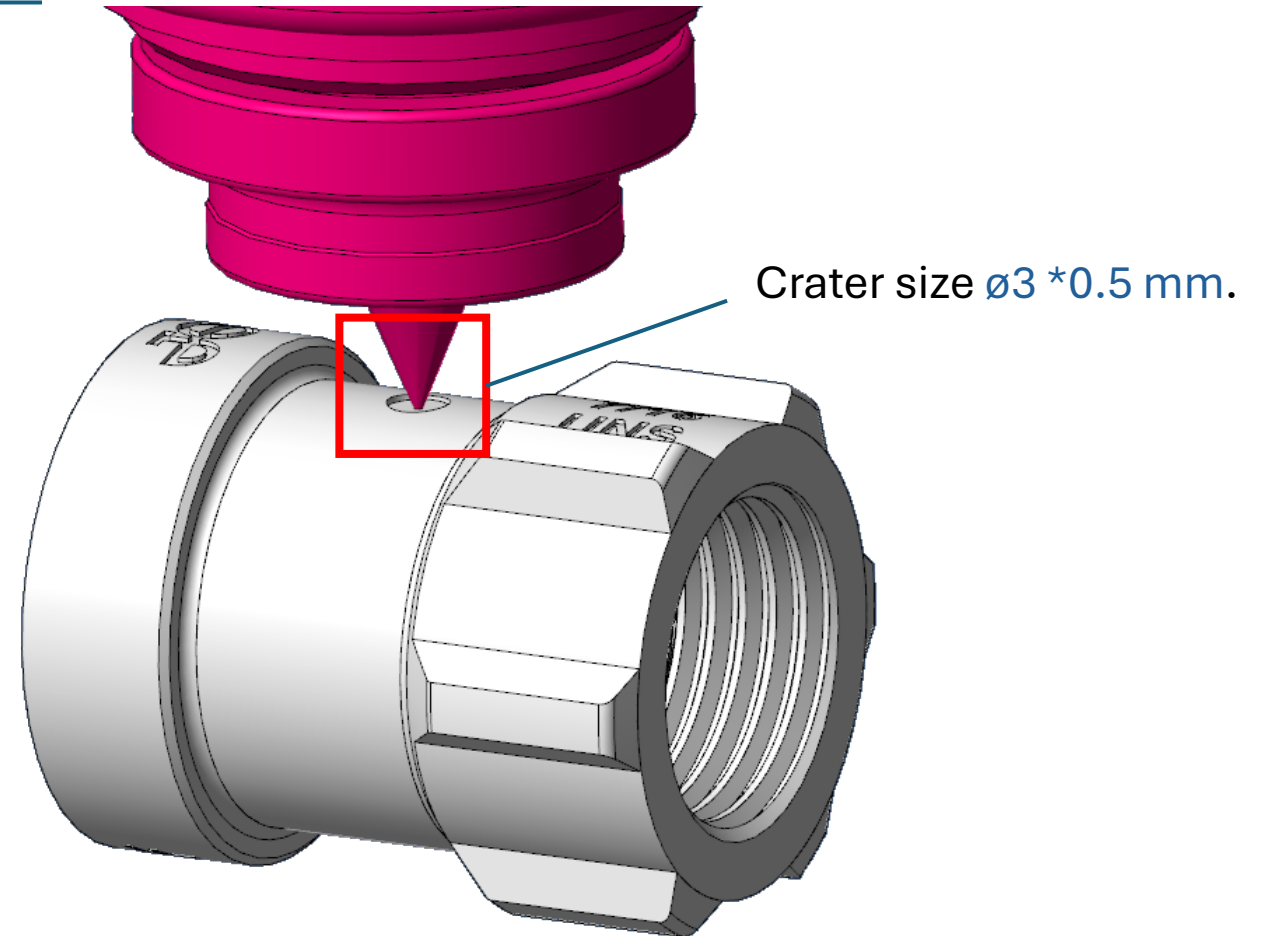
## Description and Proposal



# Gate location

## Description and Proposal

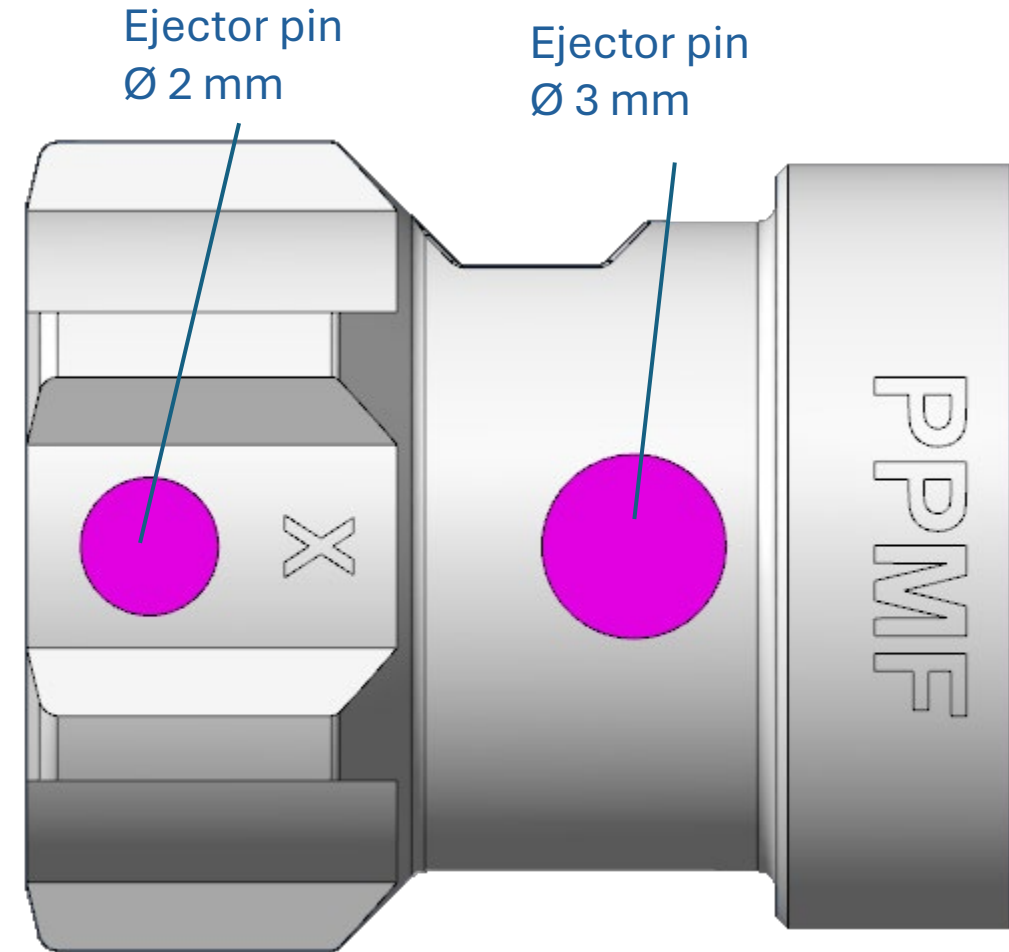
Gate location and crater size is around  $\varnothing 3 * 0.5$  mm



We plan to set the gate location at the red dot area and add a 0.5 mm deep crater.  
Please review and confirm if this is acceptable.

# Ejector pin location

## Description and Proposal



We plan to locate the two ejector pins as shown in the picture.  
Please review and confirm if this is acceptable.