

Sussex IM

Essential Partner to the World's Best Brands

Decorating 101

Injection Molding with IML/IMD

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What is IML/IMD?

Definition of injection IML and IMD

In-mold decorating technique where a printed film label is placed in the mold prior to molding. The decoration fuses to the plastic part and it eliminates the need for post molding decoration.



Where do you start?

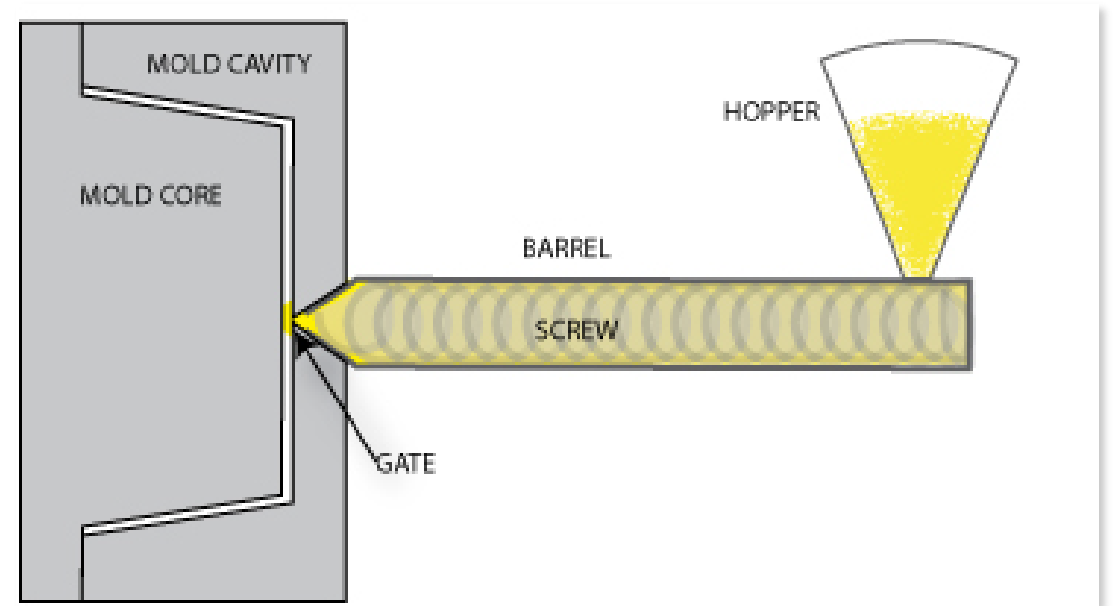
- Four key players need to be involved for a successful project launch....
 1. Injection Molder
 2. Automation Supplier
 3. Tool Maker
 4. Label Supplier



The Basics

Items of consideration at start of project...

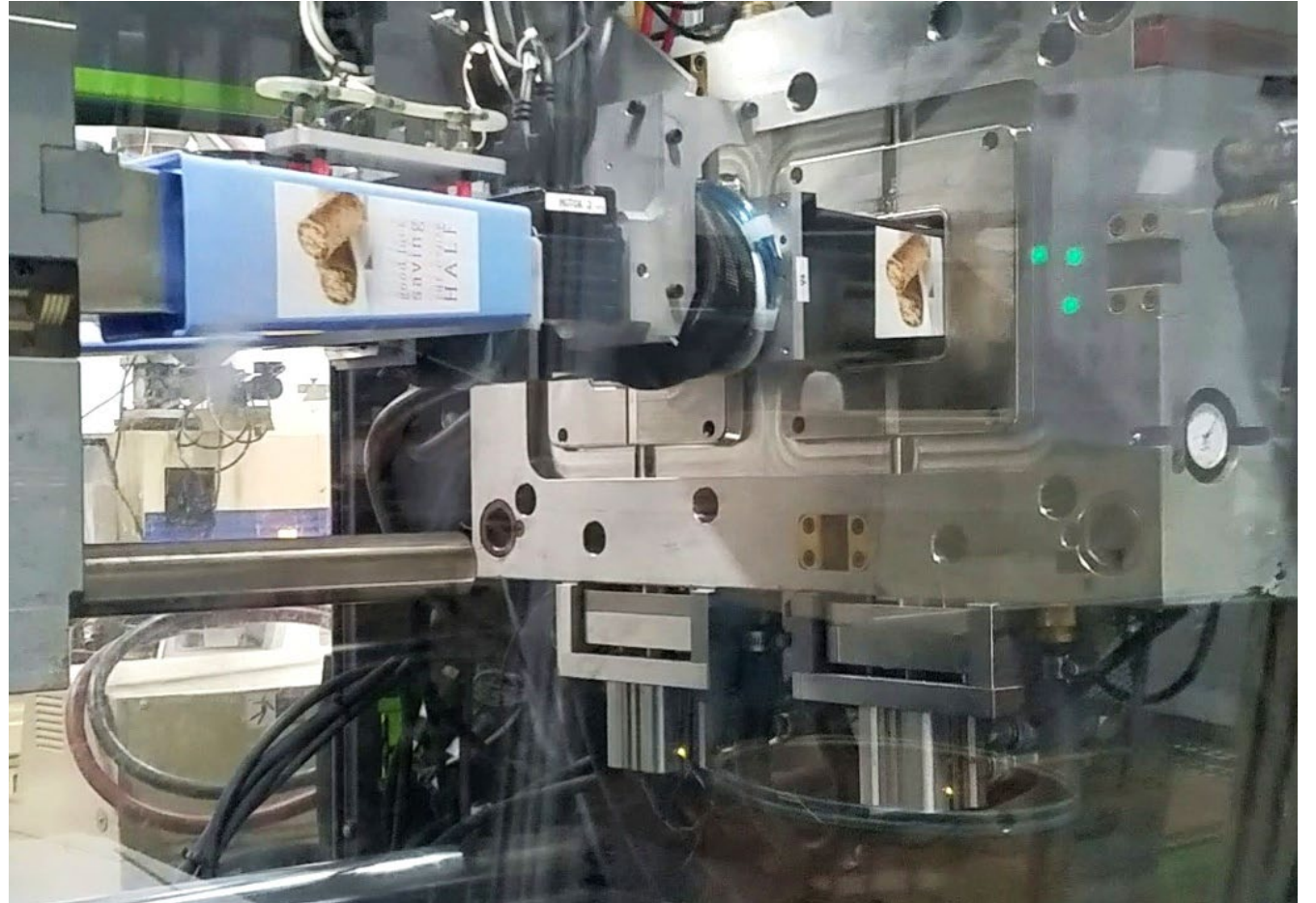
1. Material
2. Part Complexity
3. Label Location
4. Estimated Annual Volume
5. Cavitation
6. Automation



Injection Molder

Design For IML / IMD

1. Gate Location
2. Ejection
3. Cooling

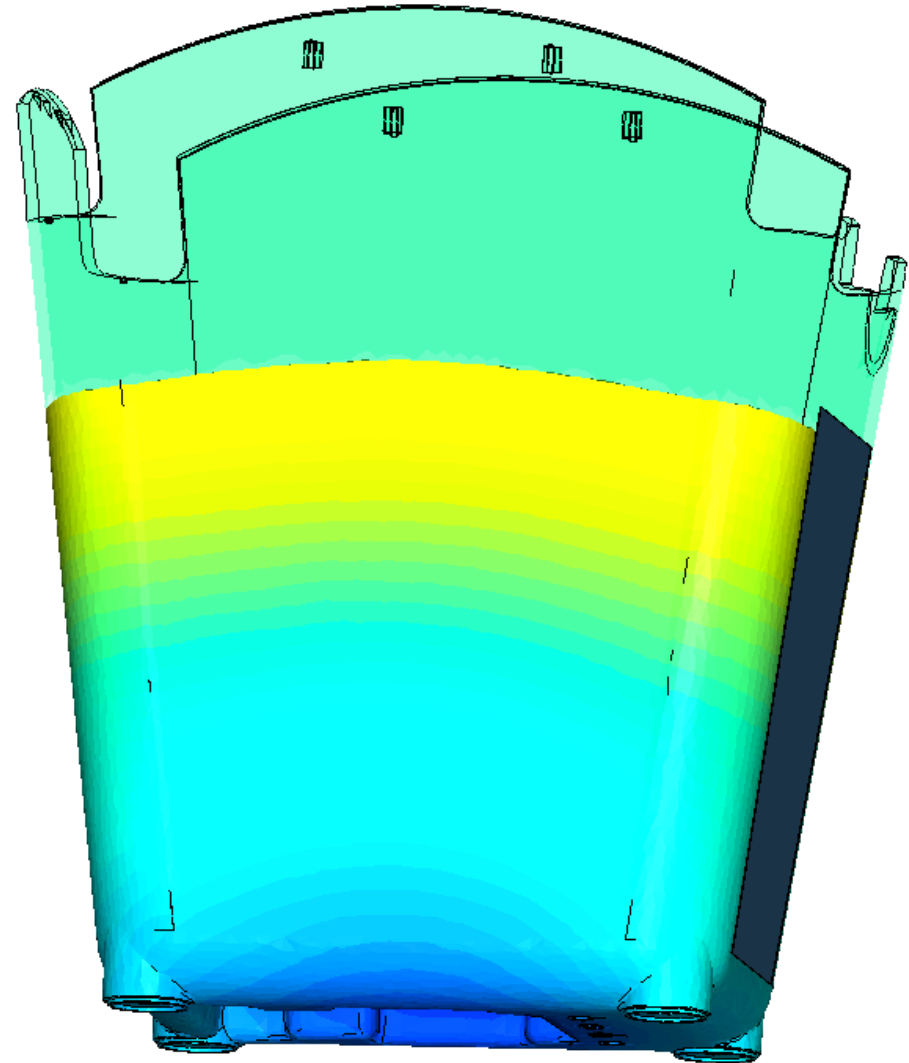


Injection Molder

Design For IML / IMD

1. Mold Flow Analysis

- Gate Location
- Flow Front
- Knit Lines

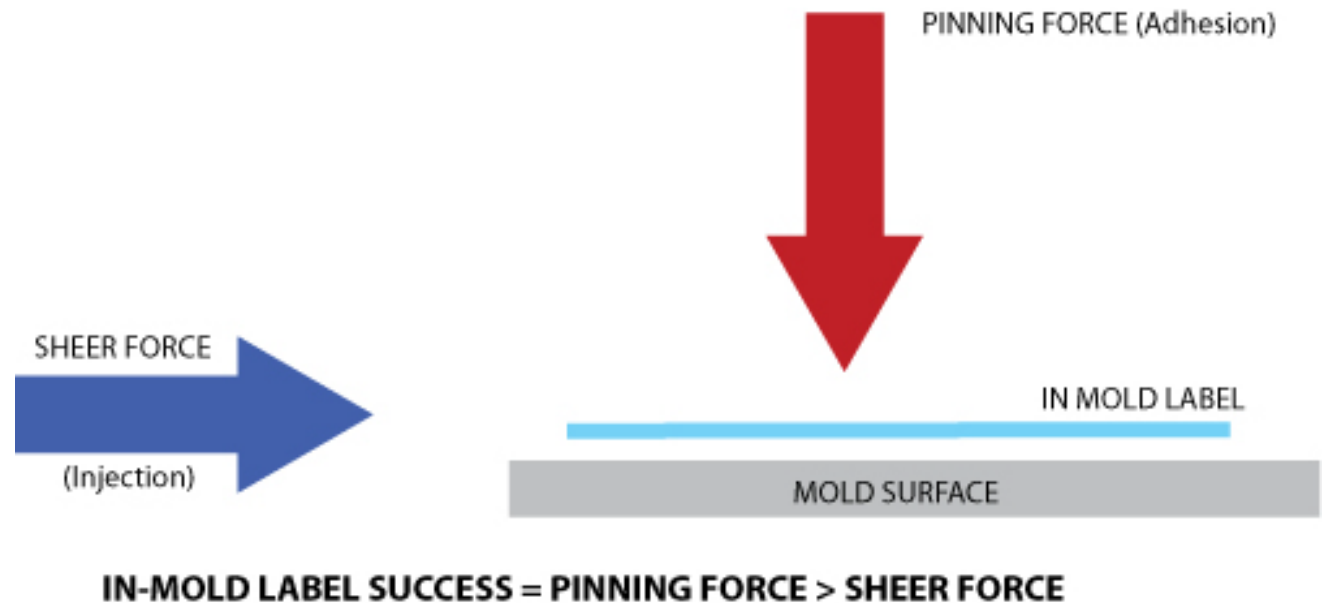


Injection Molder

Design For IML / IMD

1. Mold Flow Analysis

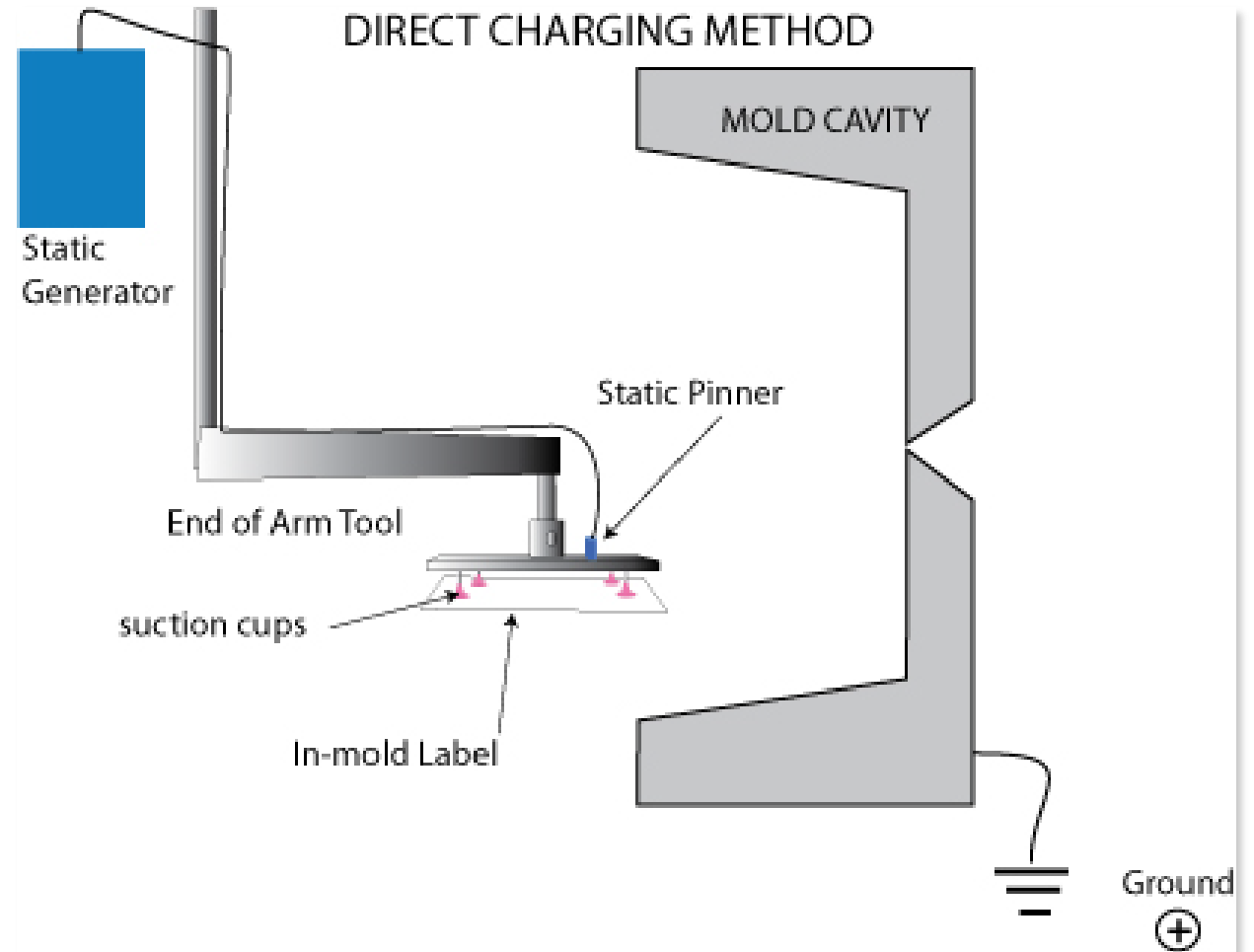
- Gate Location
- Flow Front
- Knit Lines



Automation

Label Placement In Mold

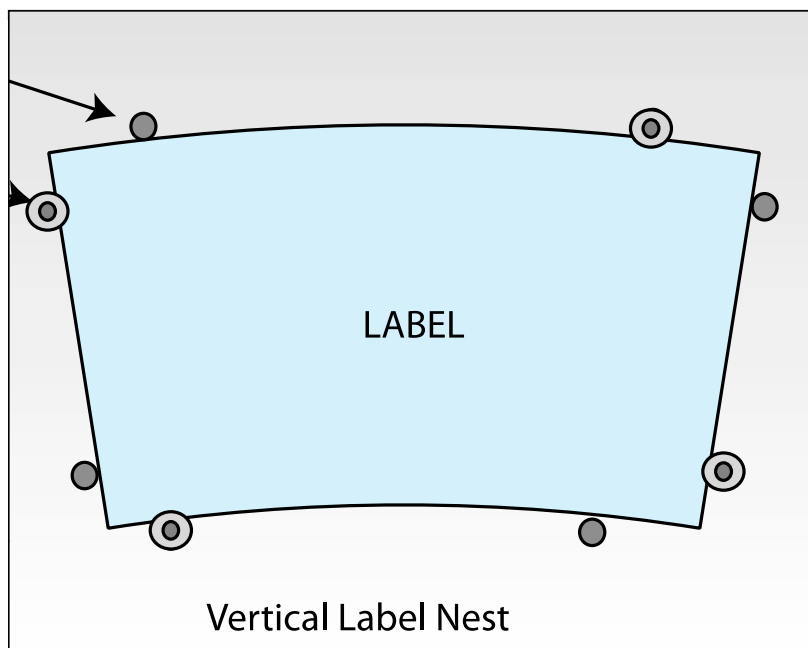
- Static Charging Method



Automation

Magazine System

- Nesting The Label



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Questions?

