

Overmolding Injection Blow Molding



Presentation of
Overmolding
Injection Blow Molding

by
Steve Lee & Wolfgang Eihusen

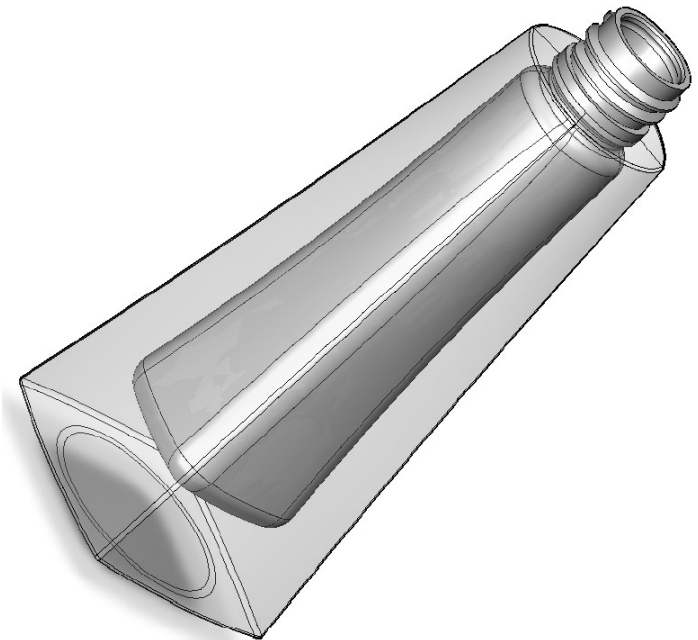
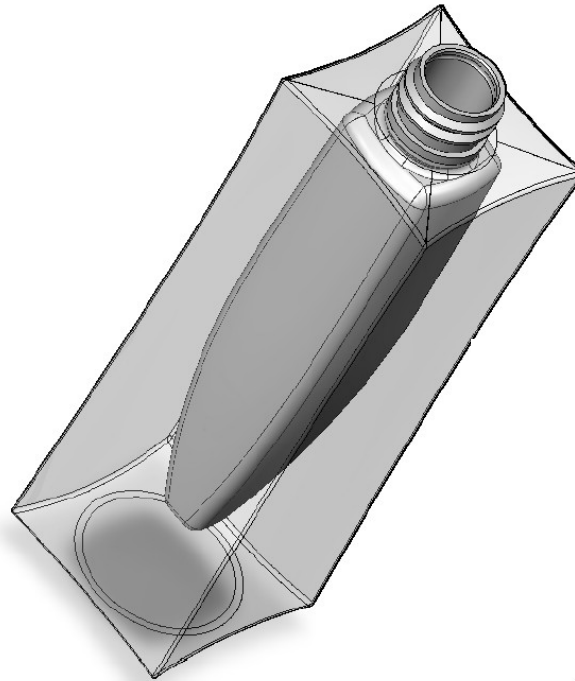
Overmolding Injection Blow Molding

Unifyer is the logical consequence of a global relationship between specialists from the injection blow market.

Unifyer is based on Swiss, German and Korean minds.

Unifyer is pushing for satisfying the old market demand of having multilayer injection blown bottles.

Now, we made the next step to overmold injection blow bottles.



Unifyer
MULTILAYERTECHNOLOGY

Philosophie

Overmolding Injection Blow Molding

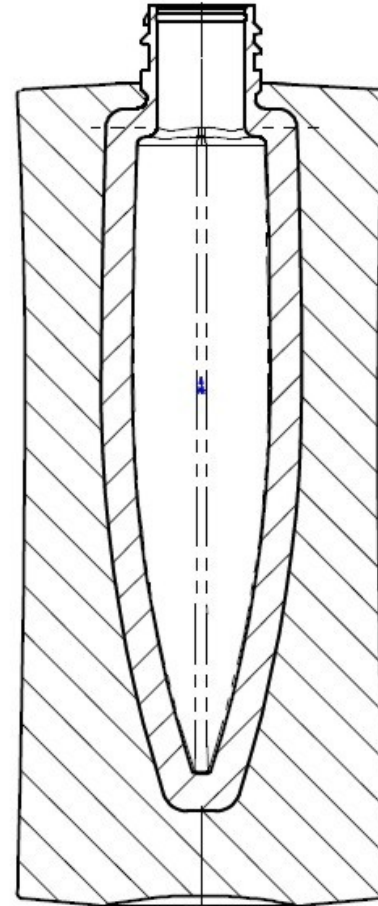
How the bottles are made?

On a injection blow molding machine the first resins is injected into a pre-form mold.

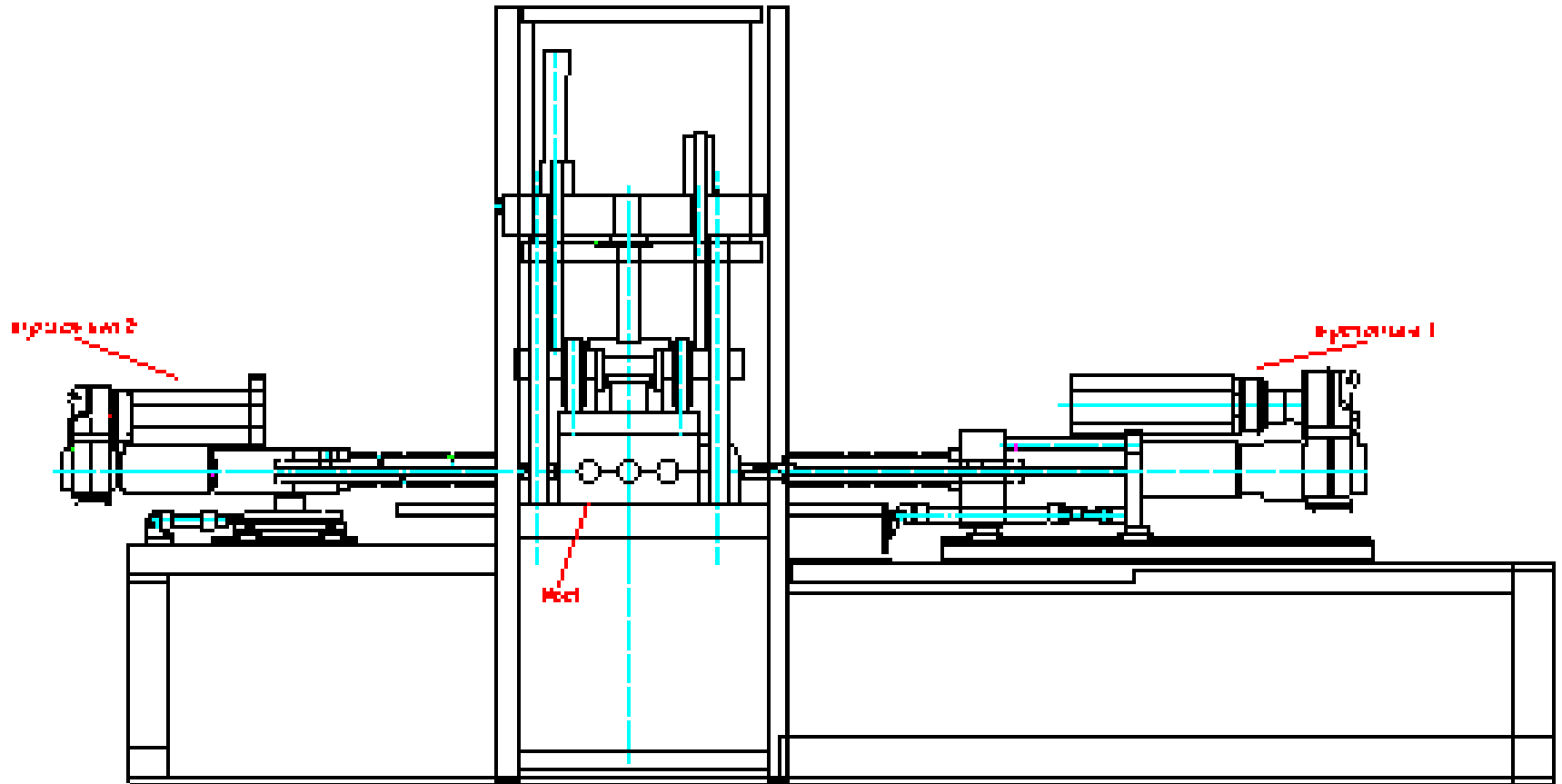
After injecting, the preform is transferred into the blow station. There the pre-form is blown up into its final bottle shape.

After blowing, the bottle is transferred into the second injection station, where the bottle is overmolded.

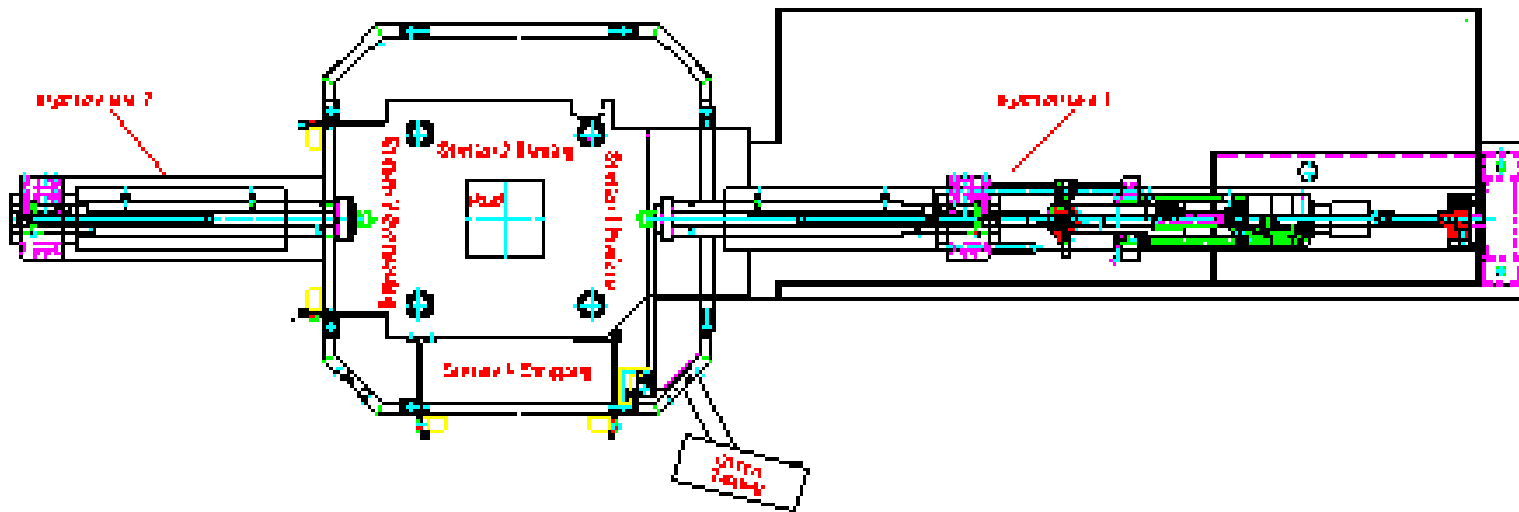
The general bottle structure is shown at the right hand side.



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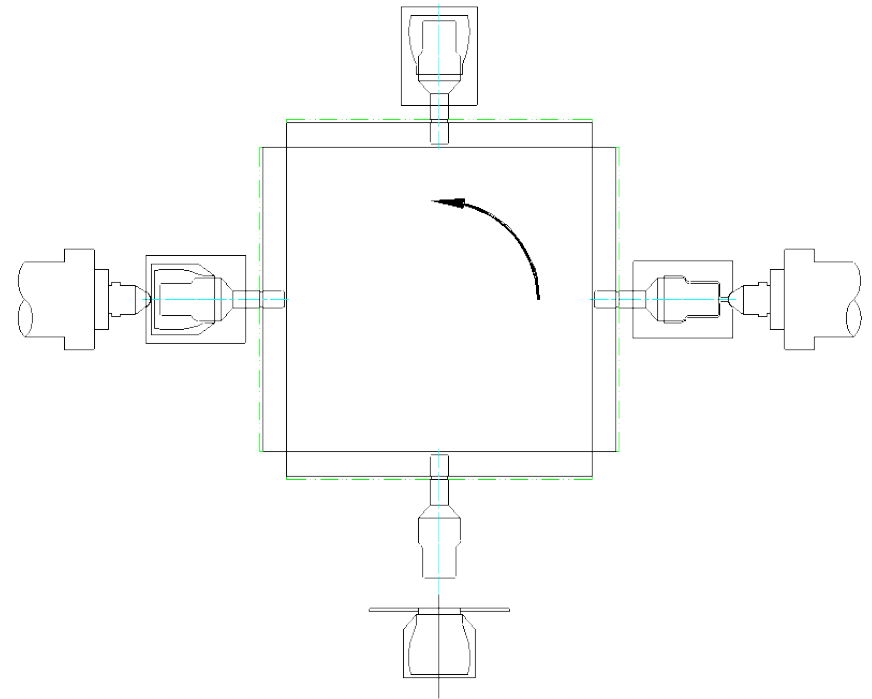
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One step production

Compared to the existing systems where an extrusion blow molded bottle is inserted into an injection molding machine, overmolding by injection blow molding is designed for mass-production.

There is no individual factor in production due to human mistakes.

Scrapless production, the bottle is finished when it does leave the machine. No secondary operation is required.

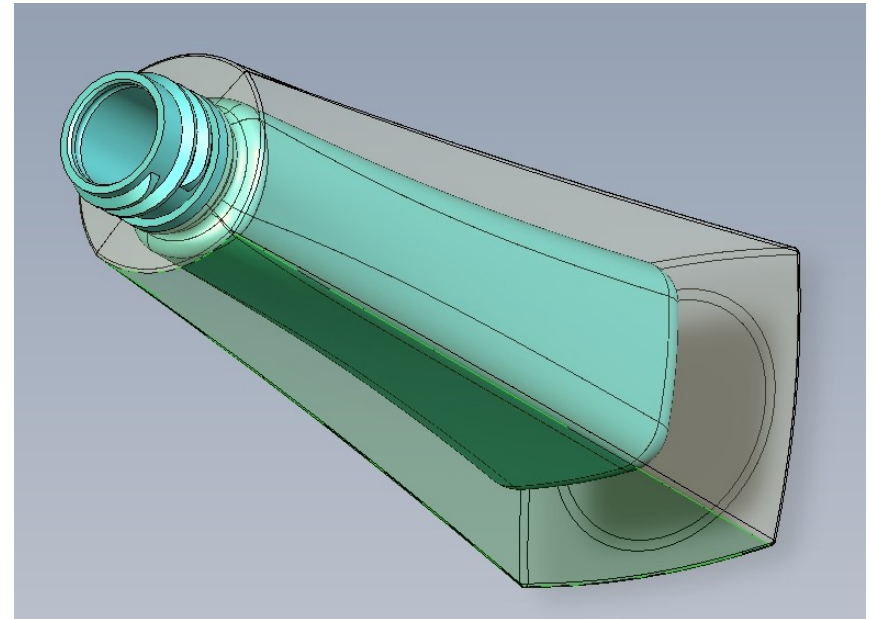


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New design

Combination of high quality injection blow molded bottles with solid clear overmolding structure does offer the customer a higher value.

High end market product.



Overmolding Injection Blow Molding

3D overmolding mascara

Colored or clear mascara bottle,
overmolded with a thick, clear layer
of Surlyn



Overmolding Injection Blow Molding

3D overmolding bottle

Colored or clear bottle, overmolded with a thick, clear layer of Surlyn



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