AL Automation Systems Co., Ltd.

Summary of Presentation

by

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Our Products

The unique, revolutionary Milling Technology
iMachining®
patent by SolidCAM

TIME SAVINGS
70%
... AND MORE!

Moldex3D
MOLDING INNOVATION

accuform

EASY SHAPE
Roland DENTAL SOLUTION

SolidCAM
iMachining – The Revolution in CAM!

MakerBot

Roland

AUTODESK.

CoLiDo

Bentley

dream it. FEEL IT.

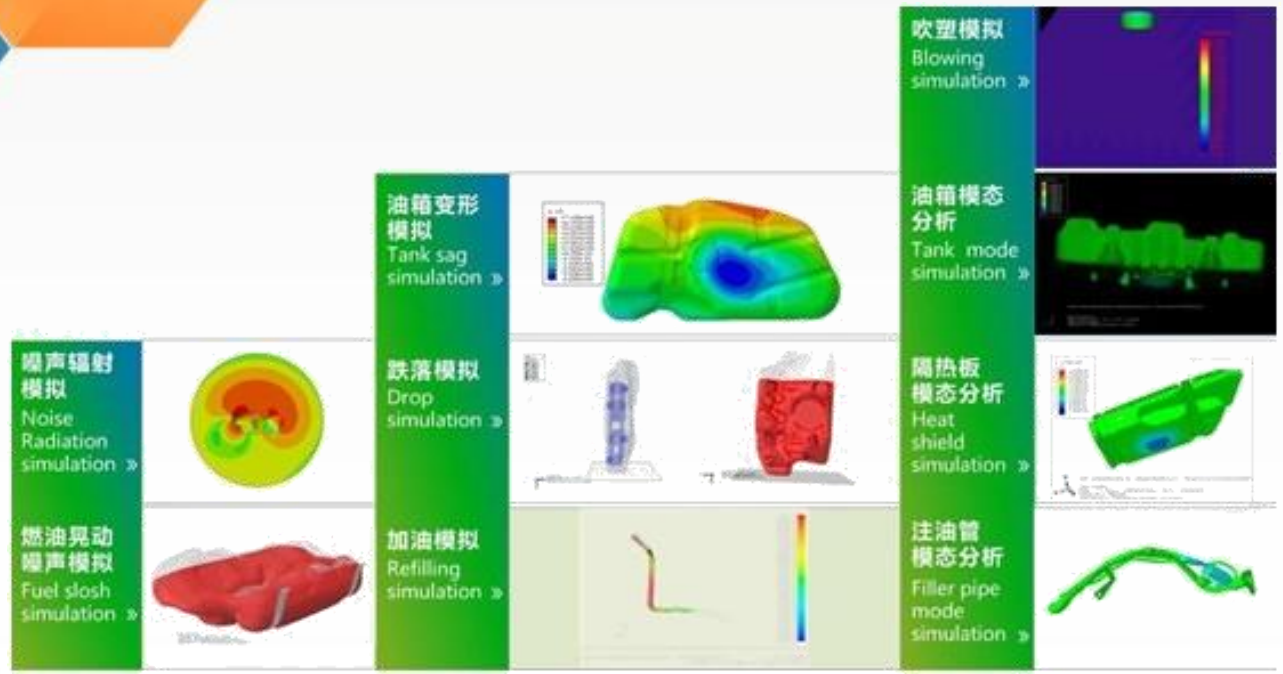
accuform

SIMULATION AND OPTIMIZATION OF
THERMOFORMING AND BLOW MOLDING

B-SIM SOFTWARE

Moldex3D
MOLDING INNOVATION

Moldex3D Injection Molding Simulation



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CoreTech System Co., Ltd.
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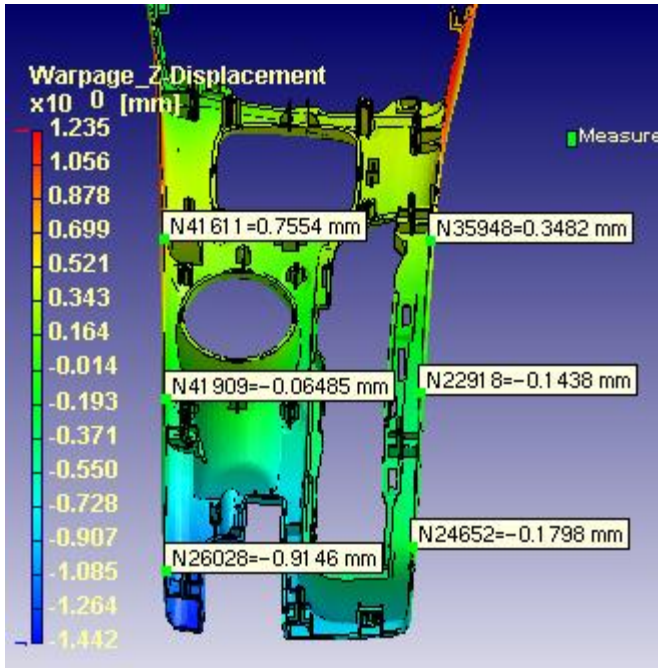
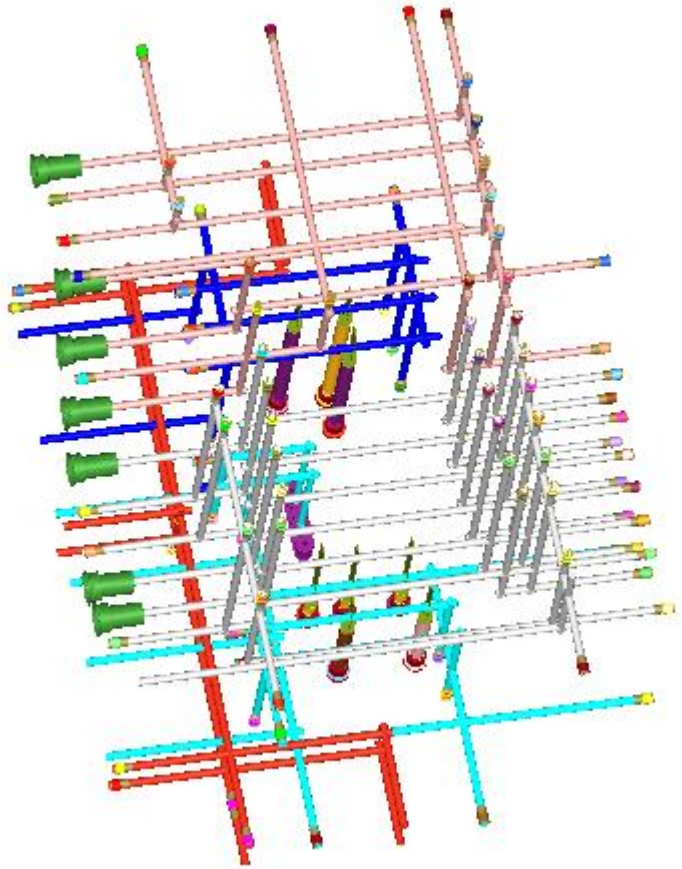
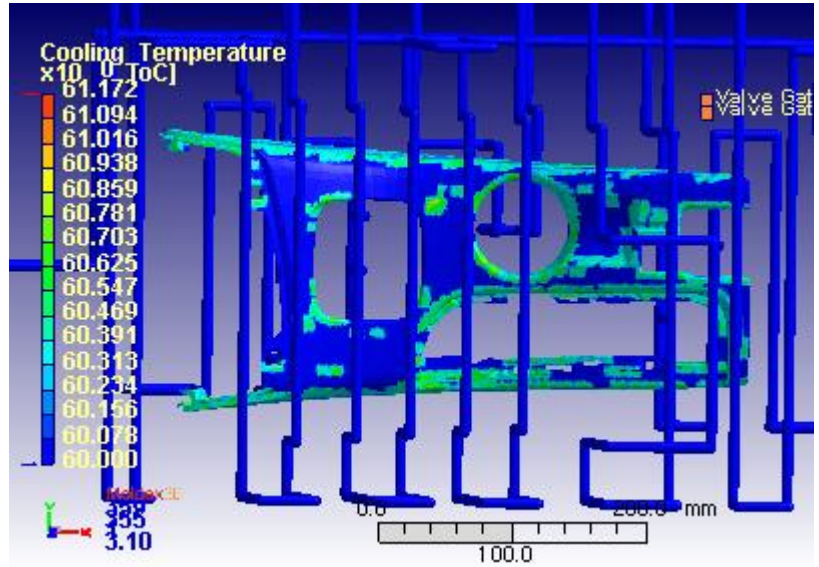
Moldex3D Injection Molding Simulation
Material's Data Summary





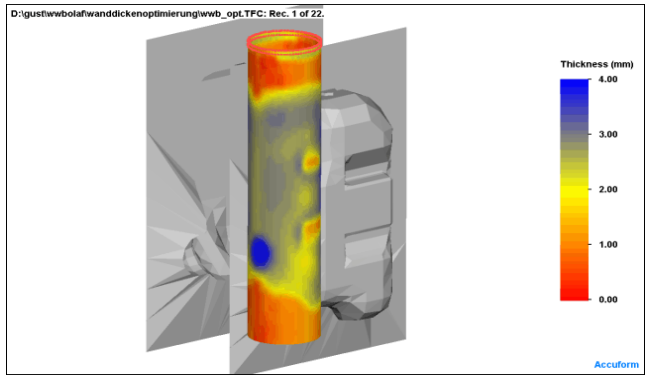
Simulation – Deflection Z - points11 to 16

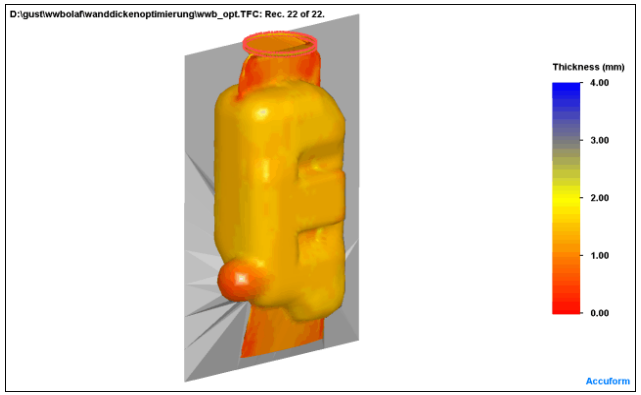


B-SIM program

with 3 type of Blow Molding Simulation Process

1. Extrusion (Extrusion Blow Molding)
2. Injection Blow Molding
3. Stretch Blow Molding



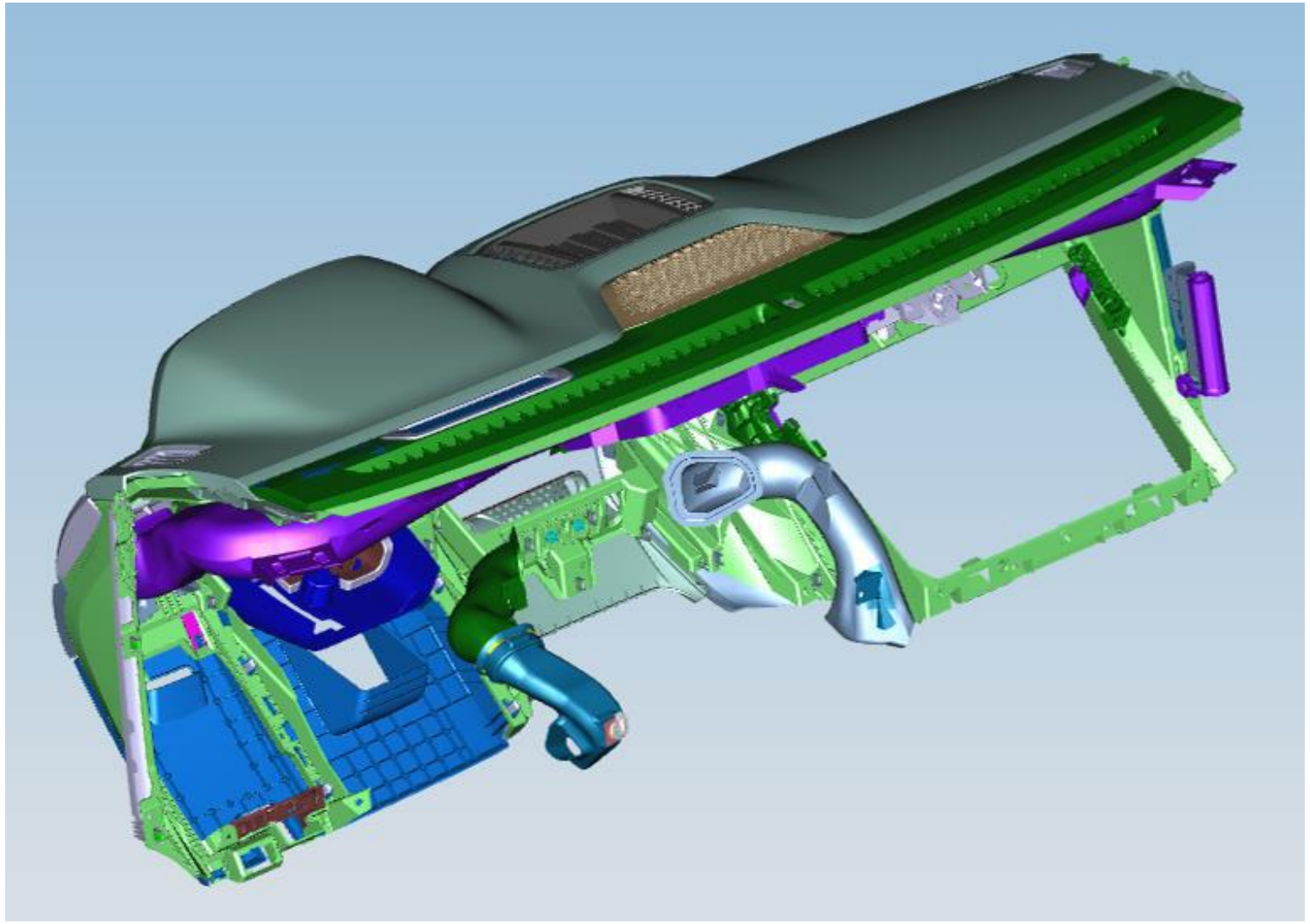


Parison extrusion optimization using AWT (Axial Wall Thickness control) AWT (Axial Wall Thickness Control)

- Parison extrusion optimization using PWT (Partial Wall Thickness control)

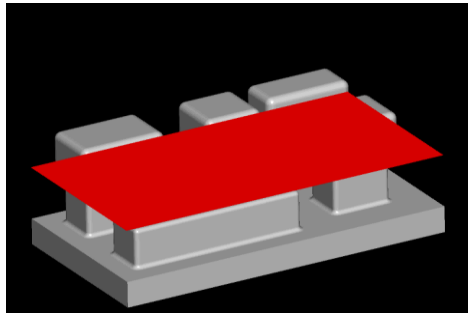
Automatic optimization of the parison thickness profile: Automatic optimization results - the final thickness distributions. Automatic optimization results - the final thickness distributions:

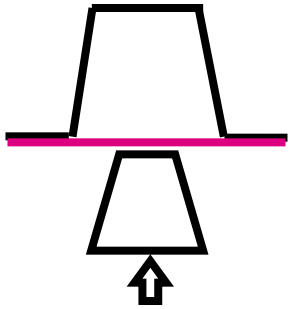
B-SIM program



T-Sim Thermoforming Simulation Program

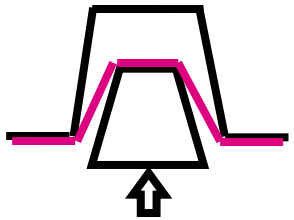
Plug Assisted Forming Optimization Negative forming with plug assist

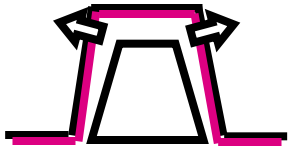




How it works:

- T-SIM starts optimization project with a plug having approximate shape.
- T-SIM runs plug assisted forming projects in loops.
- At the end of each solved project, plug shape is slightly changed.
- New iteration starts with modified plug
- After 20-40 iterations, the plug shape becomes stabilized.
- Export to CAD software is done via Iges format.





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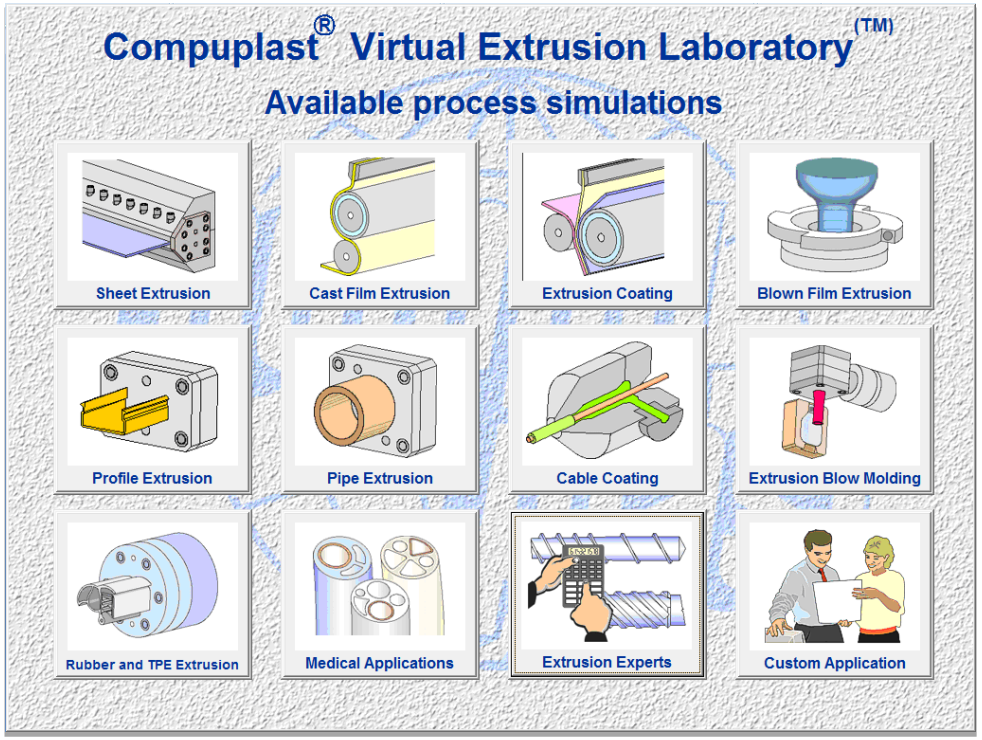
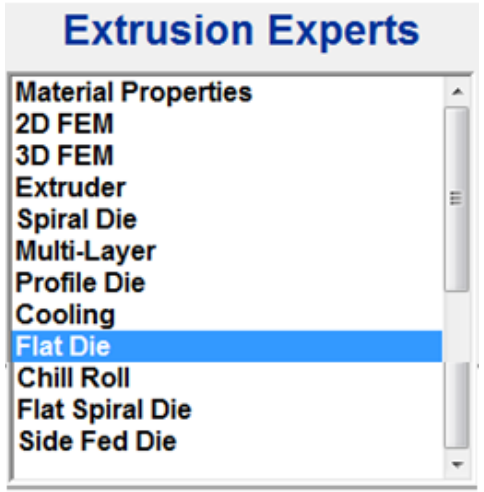
- Virtual Extrusion Laboratory Software™ (VEL™)
- is professional CAE software to simulate extrusion process.





- For example, below picture is form standard rubber.
- The shape of products are not very complex, so customer can choose extrusion, profile die and cooling modules to do all the simulation.