

Moldex3D TSV-Midplaner Release Note



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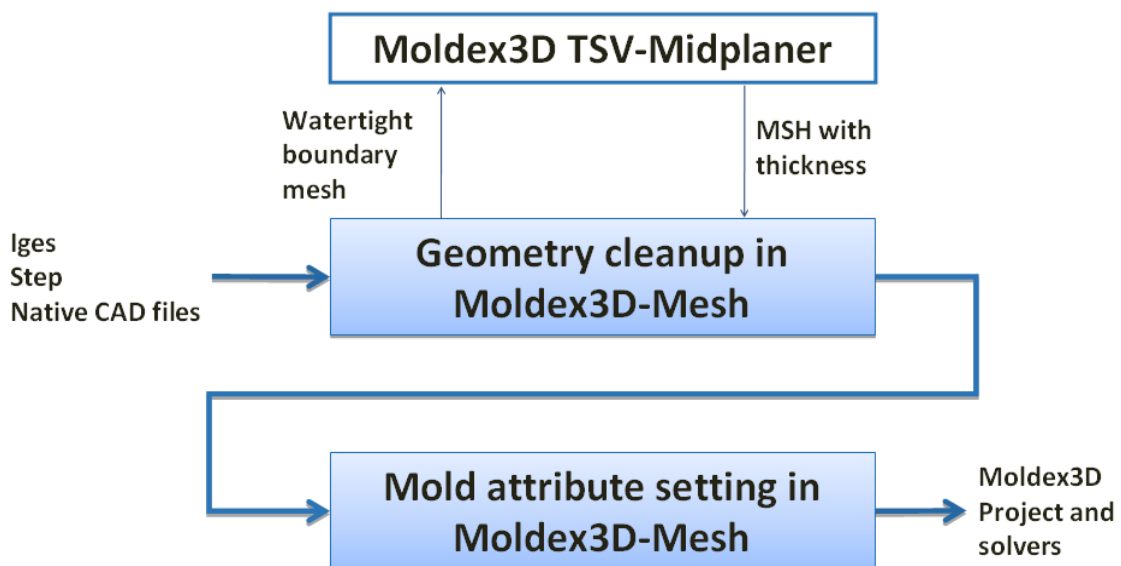
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■ Feature

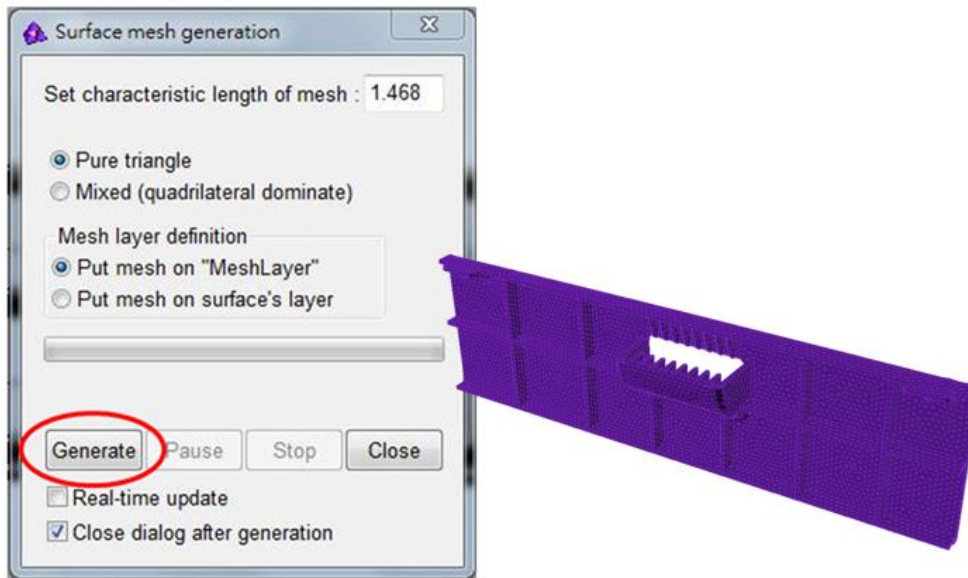
Moldex3D TSV-Midplaner is an integrated solution for **Moldex3D-Mesh** users to extract midplane mesh and prepare a shell model more efficiently.

Users can create watertight boundary mesh in **Moldex3D-Mesh** and use **Moldex3D TSV-Midplaner** to extract midplane mesh easily and quickly. After creating midplane mesh, the midplane mesh with thickness values will be loaded into **Moldex3D-Mesh**. And then, you can export the shell model to run an analysis in **Moldex3D-Project**.



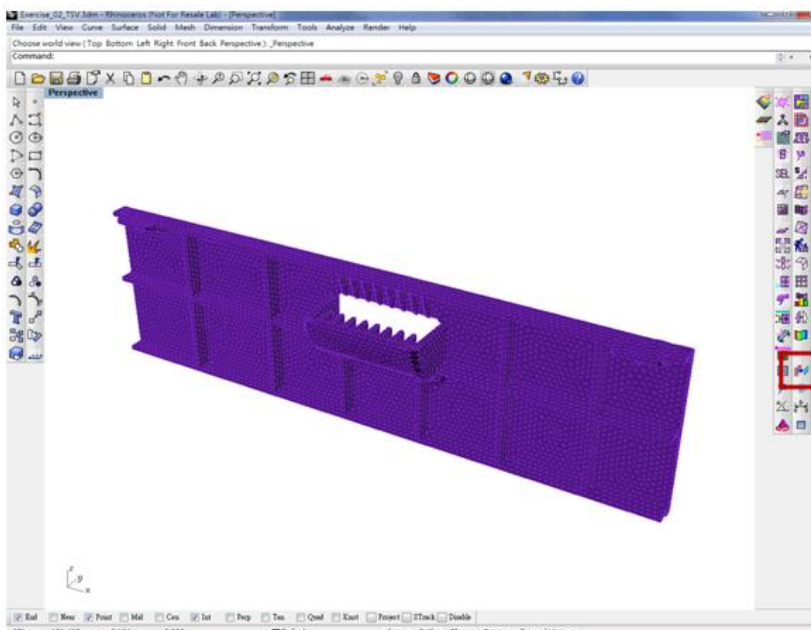
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- (1) Import geometry into **Moldex3D-Mesh** and create surface mesh.



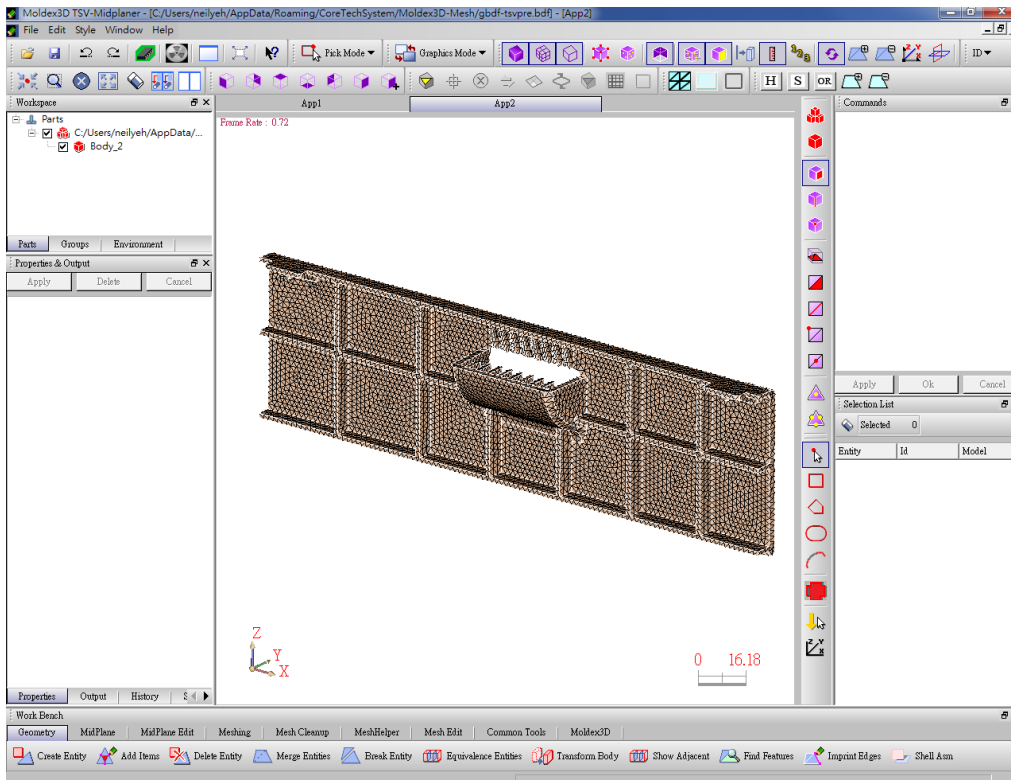
- (2) Check and fix free edges. This step will ensure watertight mesh.

- (3) Use **Moldex3D TSV-Midplaner**  to extract midplane mesh.

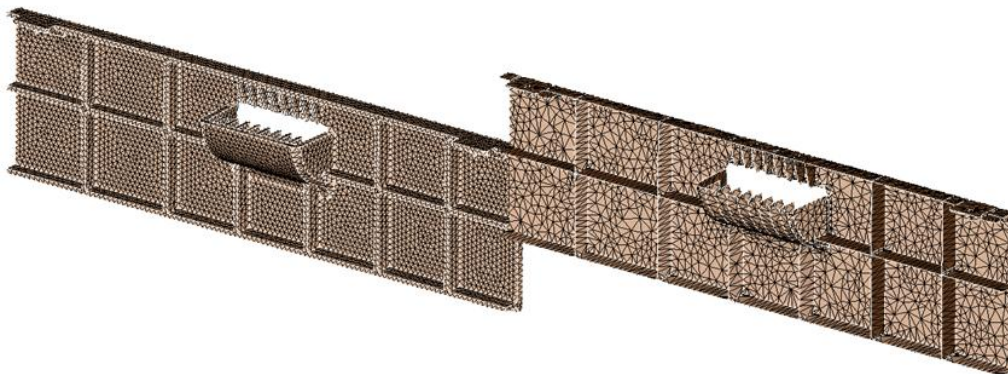


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Moldex3D-Mesh will launch Moldex3D TSV-Midplaner.



- (4) In Moldex3D TSV-Midplaner, use “Find Midplane” or “Find Midplaner3” to extract midplane mesh.

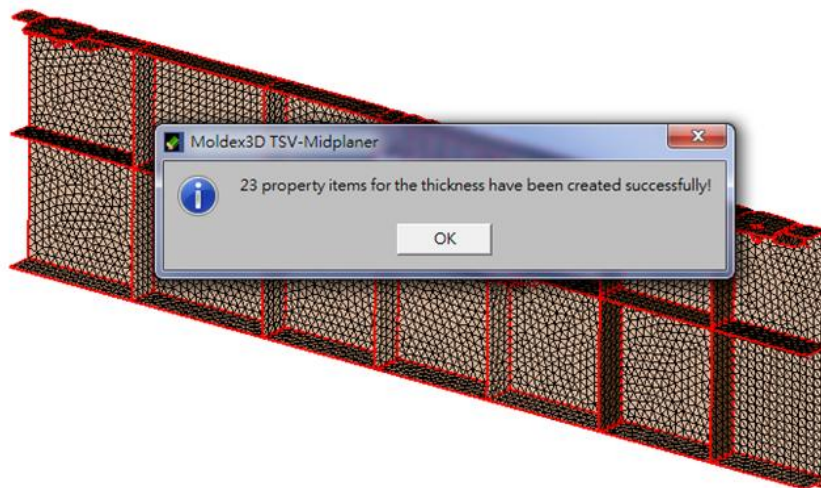


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- (5) In **Moldex3D TSV-Midplaner**, use the “**Surf Meshing**” tool to re-mesh the model.

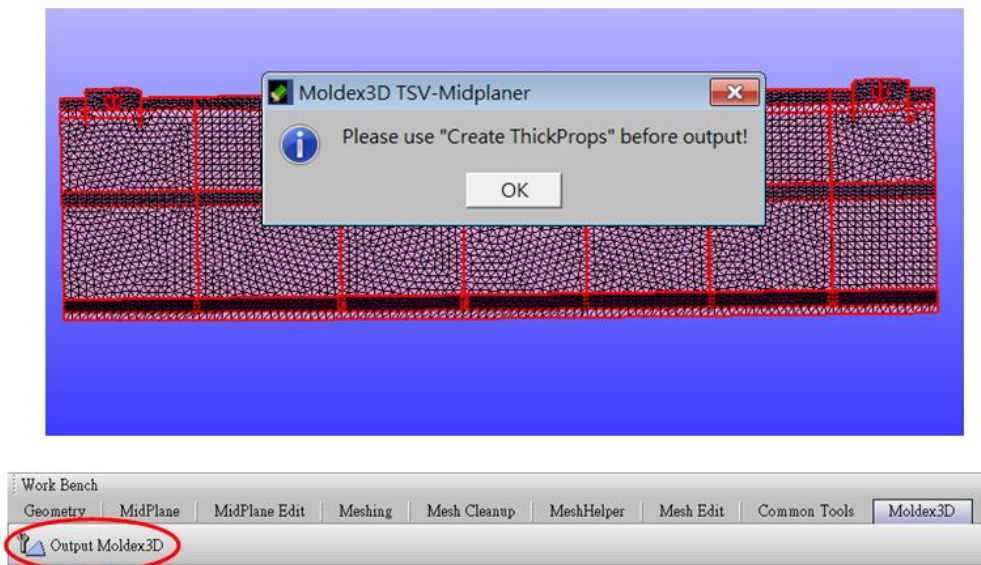


- (6) In **Moldex3D TSV-Midplaner**, use the “**Create ThickProps**” tool to get thickness values on the midplane mesh.

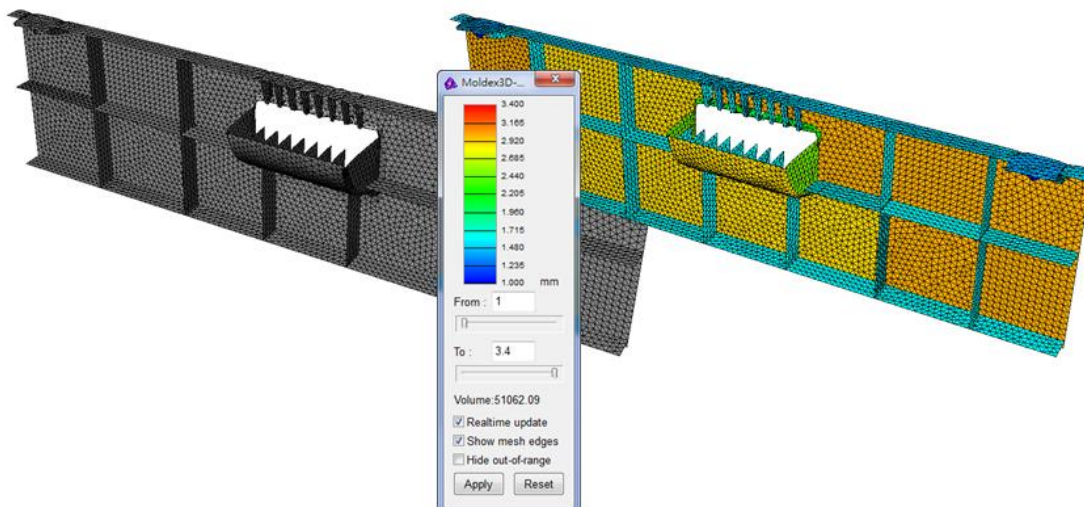


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- (7) Use **“Output Moldex3D”** to export the sell model into **Moldex3D-Mesh**. Notice that if users don't create thickness values and then use the **“Output Moldex3D”** command, a warning message will pop up as the following picture.



- (8) Close **Moldex3D TSV-Midplaner**. **Moldex3D-Mesh** will be brought back to the front. And thickness distribution is now shown for examination.



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- (9) Finally, export the *.msh file for **Moldex3D-Project** to run an analysis of plastic injection molding simulation.

