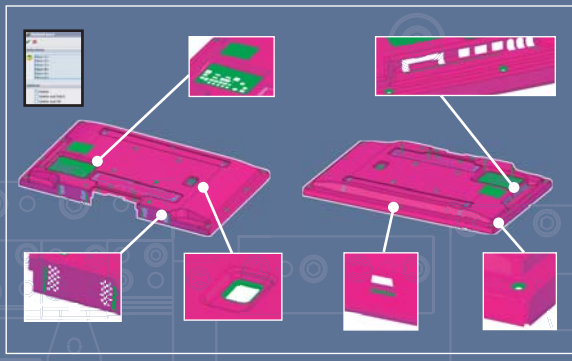
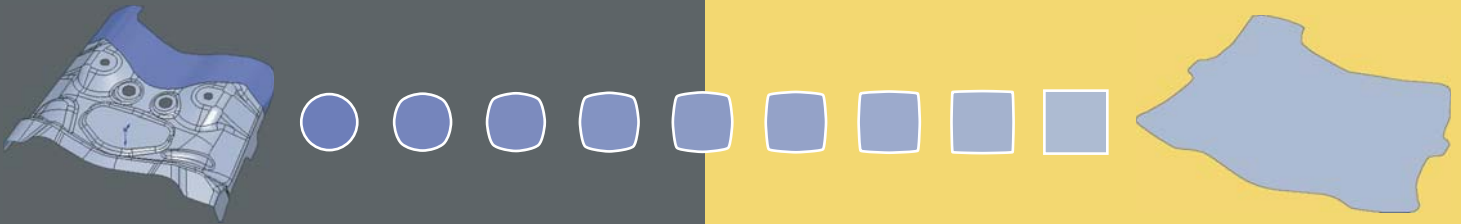




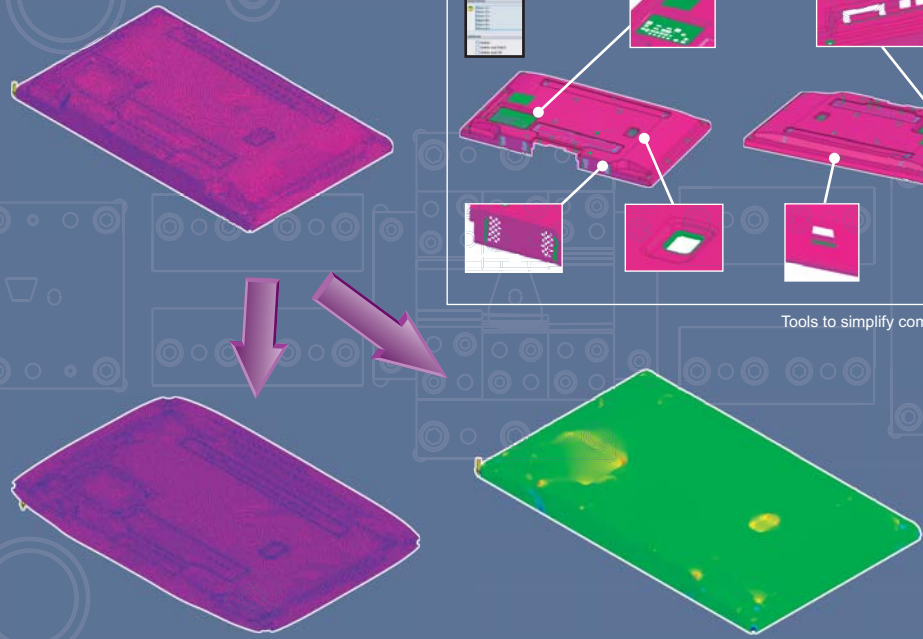
3D Blank Development Tool for Die Designers



Tools to simplify complex model

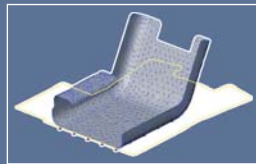
3DQuickForm is a powerful SolidWorks® Certified Gold Product for inverse forming simulation. High speed, accuracy, and full associativity with SolidWorks® data are taken into consideration to make 3DQuickForm a production design tool for die designers. Users can either import different types of CAD data or build the die geometries in SolidWorks® for the forming studies. It helps OEM manufacturers, material suppliers, and die manufacturers to deliver precision tooling in the shortest time with minimum physical try-outs.

The build-in mesher is automatic and allows user adjustment to meet the need in different situations. Tool designers may fully concentrate on the die design processes and virtual try-outs. Simulations are run in project driven manner and support multiple projects; thus streamlining design feasibility study, process simulation, and optimization. Simulation results are displayed to show initial blank shape, different material thickness, and stress/strain distribution. Customizable material database allows designers to test their design with different materials. 3DQuickForm is easy to use and rich in functions.

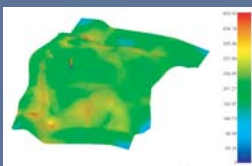


3DQuickForm

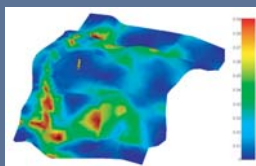
- Full range of CAD interfaces to read imported 3D data
- Special modeling tools for cleaning data
- Powerful modeling functions
- Fast & accurate blank shape generation
- Short learning curve
- Fully integrated with SolidWorks to allow strip design in fully associative process
- Better communication results in less engineering changes
- Quickly compare multiple solutions for a stamped part
- Handle complex blank shapes and forming features
- Based on ESI technologies in forming calculation
- Facilitate the material usage calculation in quotation phase
- Support fixed edges/faces
- Graphical plots of thinning and thickening of materials, & stress/strain
- Report generator
- Customizable material database
- Full integration with 3DQuickPress to provide blank shapes for die design process
- Unfolding undercut regions
- Equivalent stress plot is supported
- Effective plastic strain plot is supported
- Animation with playback control to show the forming, thinning of the part



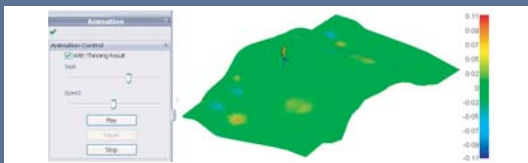
Unfolding undercut regions



Equivalent stress plot



Equivalent plastic strain plot



Animation with playback control to show the forming & thinning

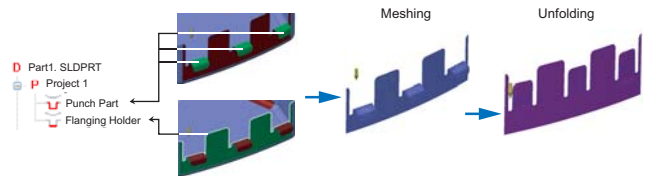


3DQuickForm Professional

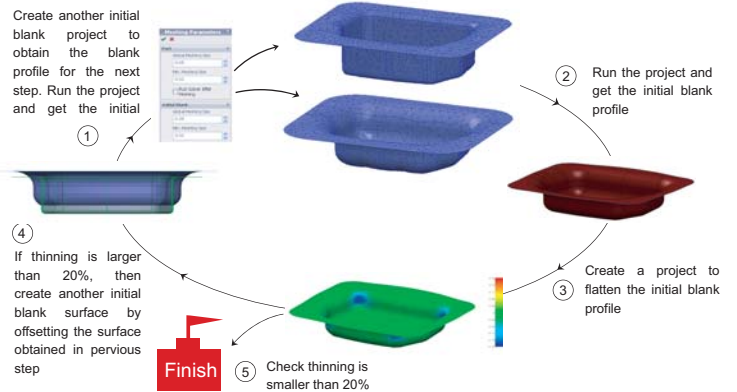
- All features in 3DQuickForm
- Part unfolded to non-planar initial blank
- Symmetrical Boundary Conditions
- Support Flanging

Example:

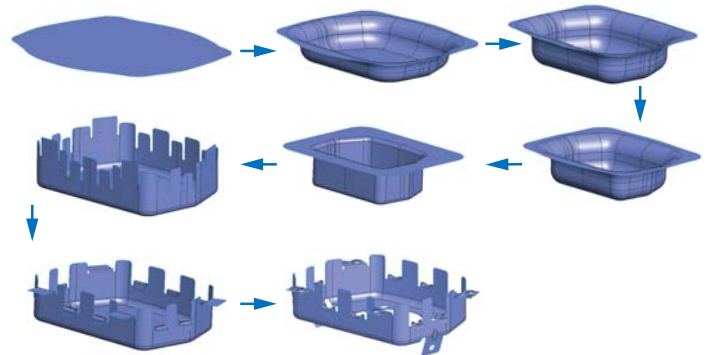
Step Unfolding



Step Deep Drawing



Overall Steps



Empowered by ESI Technologies



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