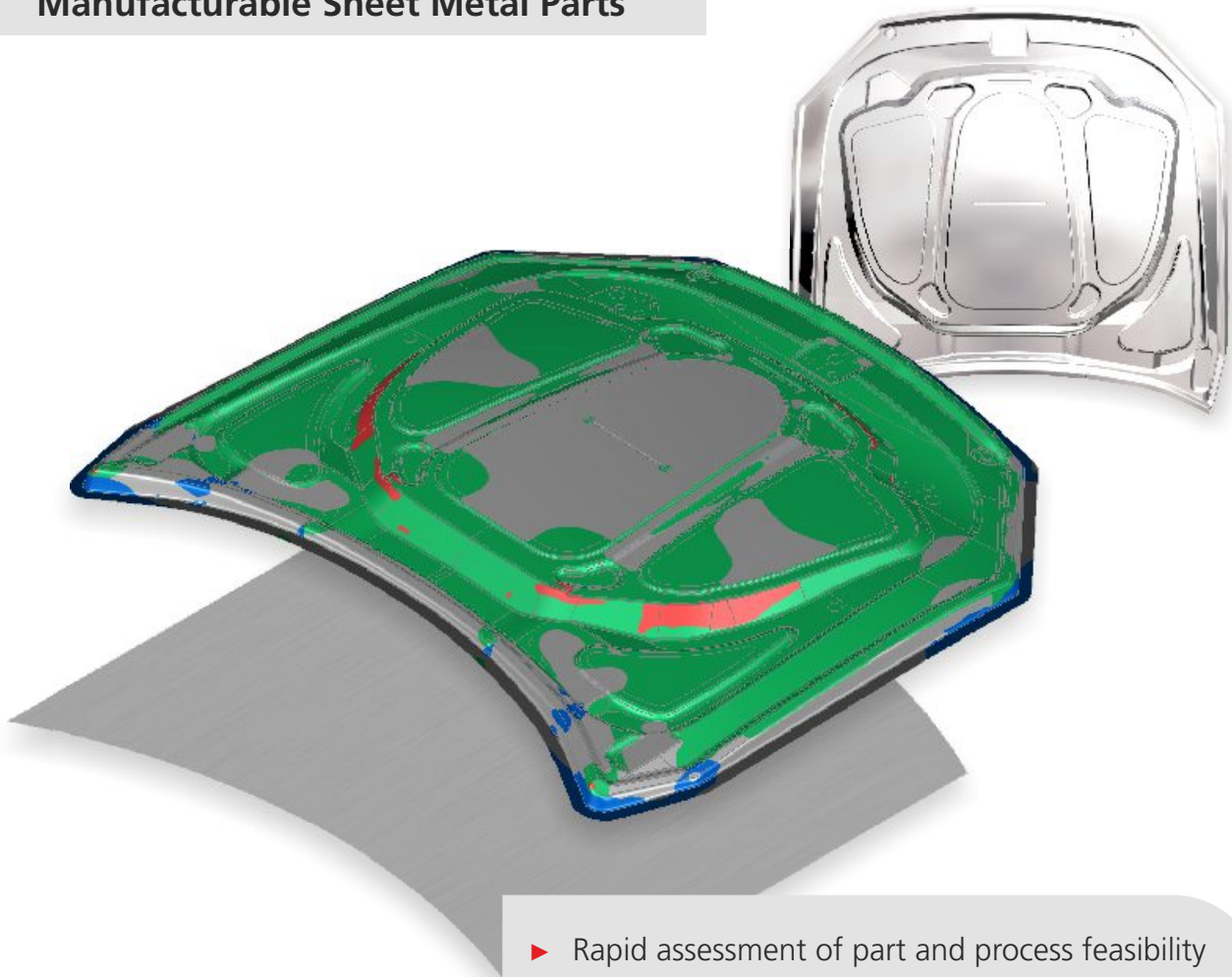


# AutoForm- Stamping Adviser

Software for Engineering  
Manufacturable Sheet Metal Parts



- ▶ Rapid assessment of part and process feasibility
- ▶ Easy prediction of potential blank shape and nesting
- ▶ Minimization of material usage
- ▶ Quick generation of 3D strip layouts for progressive dies
- ▶ Continuous improvement of part design for stamping



 **AUTOFORM**  
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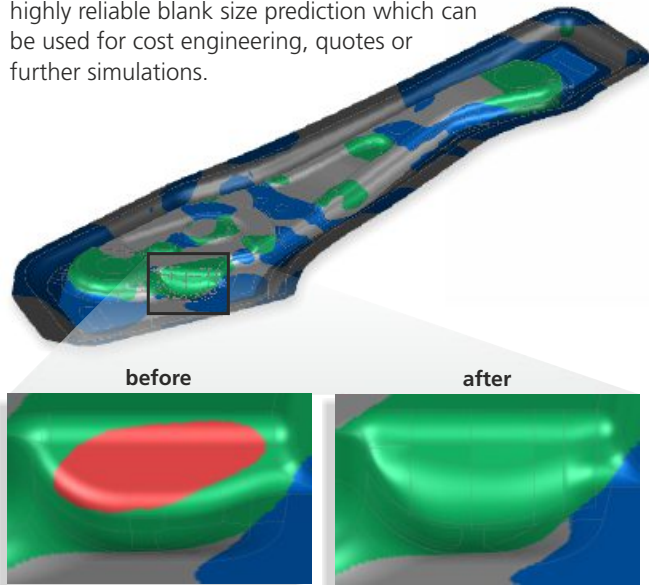
# AutoForm-StampingAdviser

## Easy Evaluation of Part and Process Feasibility, Blank Shape and Material Utilization

By using AutoForm-StampingAdviser, product designers and engineers as well as process and die-face designers can achieve better product design, improved and faster initial quality and more reliable long-term design performance. This software allows them to reduce not only development and manufacturing costs but also total time to market.

AutoForm-StampingAdviser provides valuable feedback on key stamping quality issues, such as risks of splitting and excess thinning, potential wrinkling and material costs associated with a developed blank shape. The software can be applied based on part geometry alone, with added draw geometry, webs and carriers or with full tool geometry during the process definition and evaluation phases.

In the early planning phase, AutoForm-StampingAdviser is used for initial evaluations based on part geometry alone to ascertain part feasibility or to choose a proper strip layout. For these analyses, the software allows the user to modify the part and, when needed, automatically generate a blankholder surface and a corresponding addendum. These evaluations lead to a highly reliable blank size prediction which can be used for cost engineering, quotes or further simulations.



Rapid geometry modification

During production planning and process engineering, forming analysis and blank development are performed based on the draw-die 3D geometry created by AutoForm-DieDesigner.

With a plausible die face, AutoForm-StampingAdviser quickly identifies potential formability issues and determines blank shape, material utilization and blank cost.



Nesting

The AutoForm-StampingAdviser software makes it possible to compute and to optimize embedding and nesting. When these blank calculations are coupled with AutoForm-CostEstimator, a balance between material, tooling and production costs is achieved.

When applied from early on in the part design cycle, AutoForm-StampingAdviser delivers significant benefits in terms of robust part manufacturability and performance. By using the observed thinning and effective plastic strain during CAE, the results produced are more likely to reflect final part performance. The application of AutoForm-StampingAdviser leads to a continuous improvement in part design quality as well as to a significant reduction in total costs and part production time.

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