

# AutoForm- OneStep<sup>®</sup> for CATIA

Software for Engineering  
Manufacturable Sheet Metal Parts



- ▶ Intelligent, manufacturing-guided feasibility assessment embedded within CATIA V5
- ▶ Built-in wizard for easy, rapid and continuous product evaluation until final release
- ▶ Fully associative manufacturing studies on product features, material grade and gage
- ▶ Precise blank shape, part weight and material utilization
- ▶ Improved performance CAE (crash, NVH,...) through mapping of forming results



**AUTOFORM**  
*Forming Reality*

# AutoForm-OneStep®forCATIA

## OneStep Feasibility Assessment inside CATIA

**AutoForm-OneStep<sup>for</sup>CATIA** is an essential toolkit for sheet metal product designers. Embedded within CATIA, the **OneStep Feasibility** workbench brings together all functionality necessary for quickly assessing and countermeasuring potential splits and thinning on product prior to its release.

Associativity, manufacturing-focus, simplicity, and quick turnaround – these are key features of AutoForm-OneStep<sup>for</sup>CATIA which empower designers to release manufacturable product.

Staying within the CATIA V5 design environment, product designers can continuously check their product for stamping concerns: run manufacturing studies on countermeasures – product features, material grade and gage; verify countermeasure to minimize feasibility risk. Turnaround time on assessments is between 5 and 15 minutes.

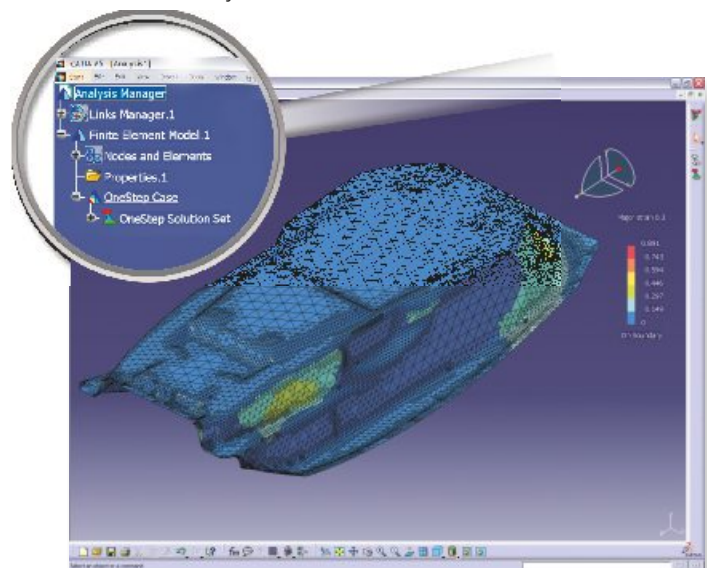
Upfront and continuous focus on product feasibility minimizes expensive post-release changes to product – reduces risk to program timing and die re-cuts during tryout. This also provides early opportunity for balance between performance and manufacturability.

Associative linkage between part geometry and feasibility results helps designer track maturation of product to final manufacturable release.

Fillet, hole and boundary fill, automatic recognition of secondary operation faces – these are unique features of the workbench that enable efficient design studies on very early, even unfinished or partly finished geometry.

Automatic and accurate blank shape, size and part weight outputs add significant value to feasibility assessments.

Detailed strain and thickness evaluations are available through CATIA V5 GPS module. Strain and thickness results can be mapped onto selected FE meshes used by other CAE software for performance analyses – crash, NVH, durability, etc.



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