

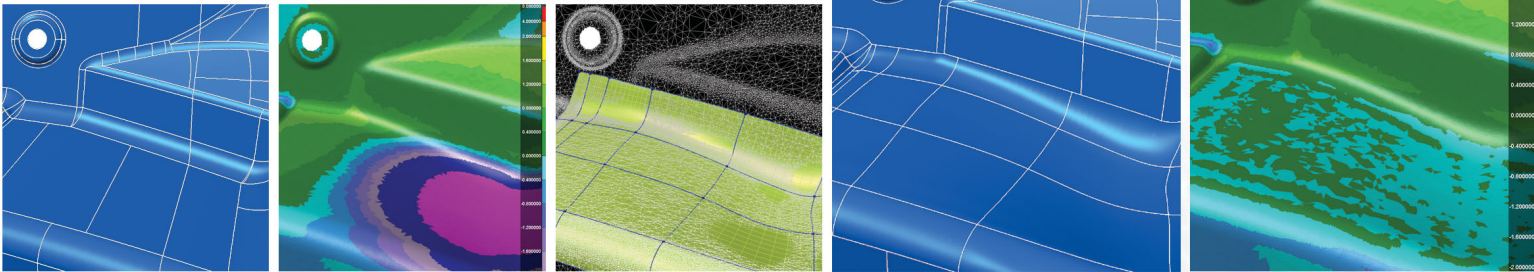
PolyWorks/Modeler™ AAA

enables true interoperability
with CAD/CAM applications

Whether models are made out of polygons or NURBS surfaces, or were created from point cloud data or your CAD/CAM application, PolyWorks/Modeler V11 offers you the optimal process that ensures the fastest lead time.

Combine digitized polygonal models and CAD models

- Import IGES and STEP files
- Generate watertight tessellated CAD models
- Merge digitized and CAD polygonal models through surface stitching or volumetric Boolean operations
- Automatically reconstruct selected CAD faces using NURBS surfaces fitted on digitized polygonal models, ideal for updating CAD models of modified dies



Original CAD model

Part-to-CAD deviations

Reverse-engineered section

Reconstructed CAD model

Updated part-to-CAD deviations

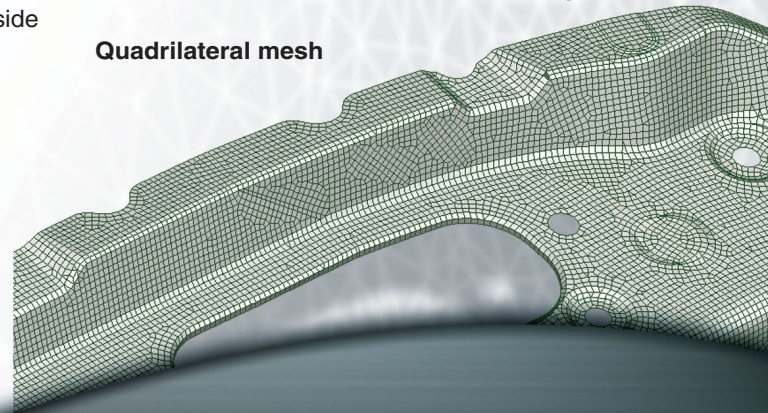
Create quadrilateral meshes for finite element analysis in a wink

- Morph tessellated CAD models onto digitized polygonal models (no polygon editing needed)
- Directly convert morphed models into quadrilateral models and export quad meshes to Nastran format (no NURBS surfacing needed)
- Create finite element meshes of sheet metal parts digitized on one side
- Create finite element meshes of sheet metal sub-assemblies

Quadrilateral mesh

Generate editable CAD surfaces from digitized polygonal models

- Dynamically construct surface patches in real time by laying down curves on polygonal models
- Maintain perfect curvature/tangent continuity (G2/G1) in areas where patch topology is rectangular
- Create N-sided patches and T-junctions in areas where multiple master surfaces blend
- Benefit from the enhanced surface smoothness of the new PolyWorks V11 surface-fitting engine



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