

# PolyWorks | Modeler™

Enabling true interoperability between digitized polygonal models and CAD/CAM applications

## Overview

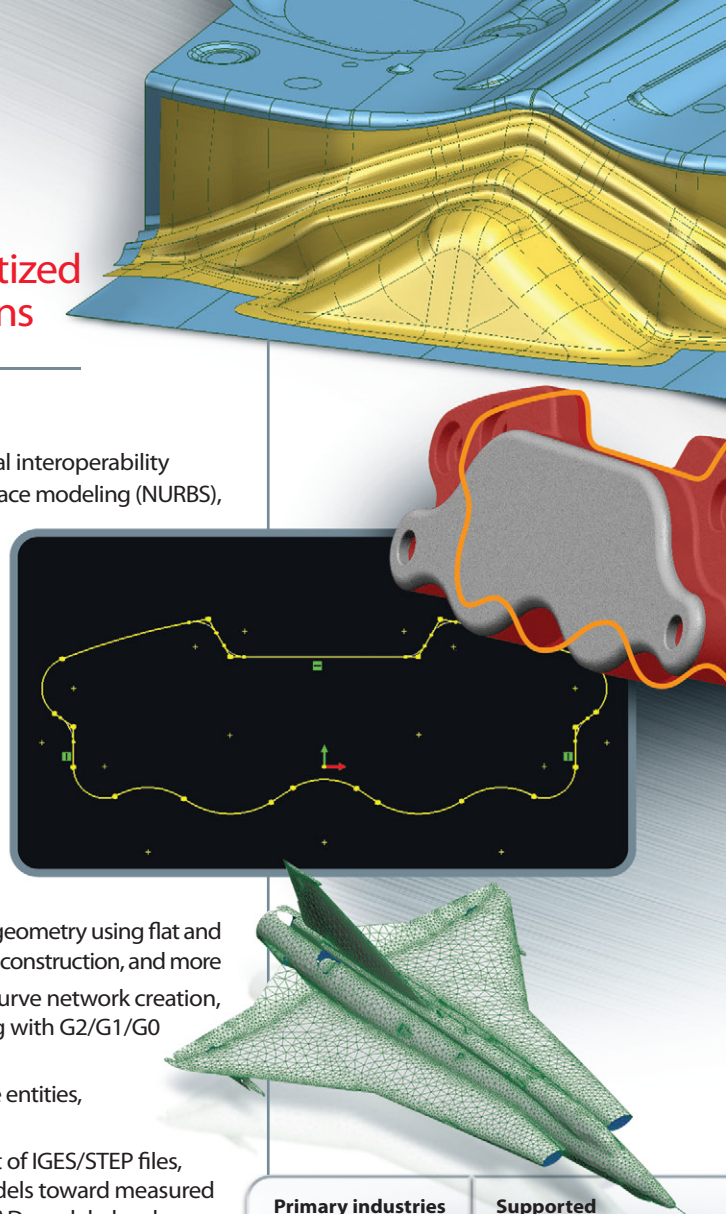
PolyWorks/Modeler is a comprehensive modeling solution that enables a total interoperability between point cloud digitizing equipment and polygonal modeling (STL), surface modeling (NURBS), and solid modeling workflows. Whether models are made out of polygons or NURBS surfaces, or were created from point cloud data or your CAD/CAM application, PolyWorks/Modeler offers you the optimal process that ensures the fastest lead time.

## Key features

- **Universal platform** that supports all high-density point cloud digitizers by importing native and neutral file formats and digitizing using plug-ins
- **Complete alignment toolbox**, including best-fit alignment of individual point clouds or multiple scanning sessions and statistical analysis
- **World's best adaptive-meshing technology** with distributed processing capability over a computer network
- **Total polygon-editing toolbox** that enables correcting imperfectly digitized geometry using flat and curvature-based hole filling, boundary reconstruction, sharp edge and corner reconstruction, and more
- **Rapid NURBS surfacing capabilities** including automatic and interactive curve network creation, support of N-sided patches and T-junctions, automatic NURBS surface fitting with G2/G1/G0 continuity, and more
- **Parametric 2D sketching capabilities** that support arc, line, circle, and spline entities, and relational constraints between entities
- **Advanced interoperability with CAD/CAM applications** including import of IGES/STEP files, watertight tessellation of NURBS surfaces, morphing of tessellated CAD models toward measured models, volumetric or surface-based merging of digitized and tessellated CAD models, local reconstruction of CAD faces using fitted NURBS surfaces, and more
- **Finite element meshing** through the quadrangulation of triangulated models
- **Xtreme graphical user interface** that offers fully customizable menus and toolbars, ideal for corporate-wide deployment
- **Free PolyWorks/IMView™ viewer** that maximizes corporate-wide information sharing among users, managers, and suppliers

## Included with each license

- Free PolyWorks training at InnovMetric's headquarters
- One year of technical support from highly skilled Application Specialists with optional annual renewals
- Access to InnovMetric's on-line technical support zone
- Access to a comprehensive network of partners that provide PolyWorks service work, like macro development and interface customization



### Primary industries served

Automotive  
Aeronautic  
Consumer goods  
Energy  
Metalworking

### Supported languages

English  
Japanese  
German  
French  
Chinese (simplified & traditional)  
Spanish  
Portuguese  
Italian  
Russian  
Czech

### Primary applications

Advanced visualization  
Copy milling  
Design and reverse engineering  
Rapid prototyping  
Simulation  
Tooling manufacturing

### System requirements

Windows 64-bit or 32-bit Edition (7/Vista/XP)  
Dual-core processor or two processors  
2 GB of RAM or more  
2 GB of free disk space and 2 GB of swap space  
OpenGL graphics board (NVIDIA is recommended)  
3-button mouse or 2-button with wheel



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