

What's new in



PolyWorks

# Modeler™ 2021

Reverse Engineering &  
3D Modeling Solution

The Next-Generation  
Automatic Surfacing  
Solution for Smart  
Reverse Engineering

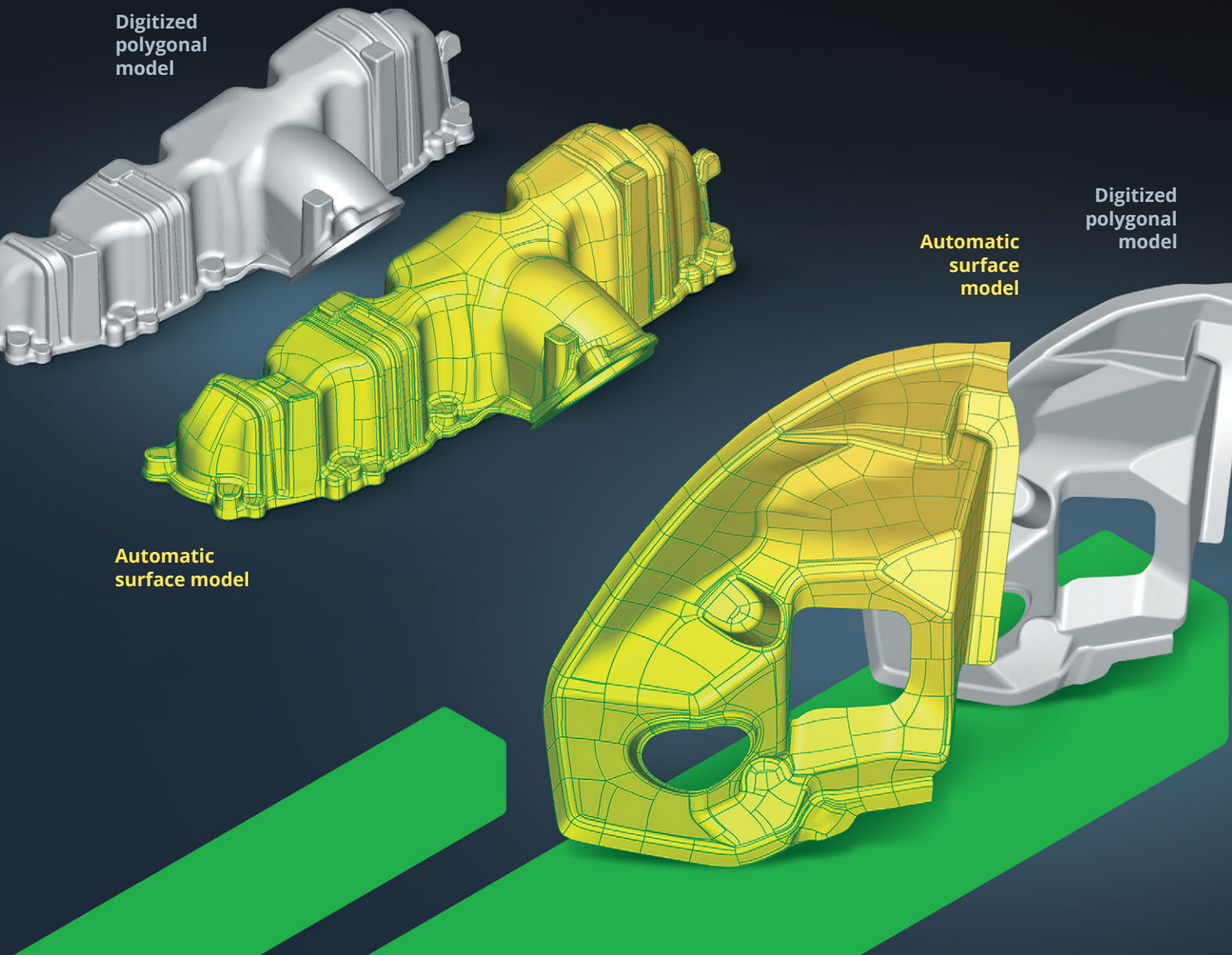
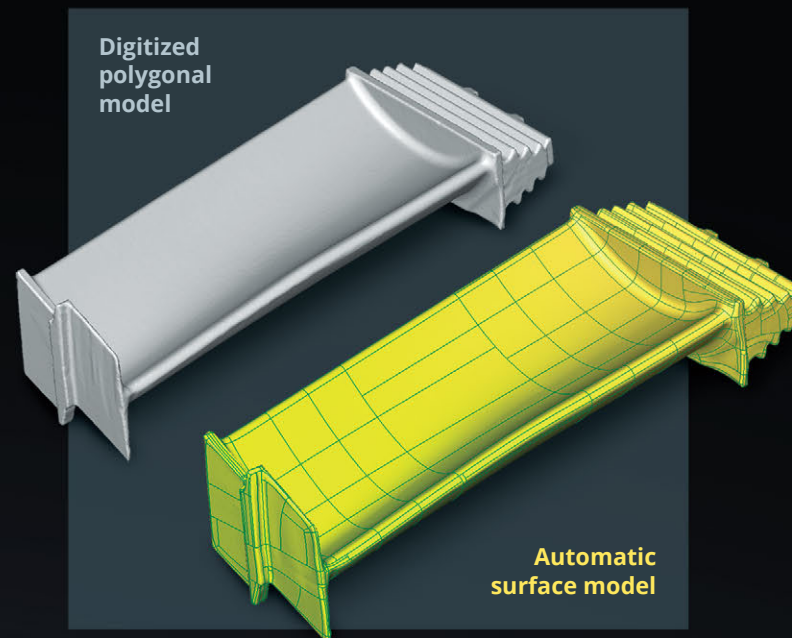




# Get CAD-friendly surface models from automatic surfacing technology

With a single click, automatically turn your 3D scans into high-quality surface models directly usable in your preferred downstream applications, including FEA and mechanical simulation, machining, and CAD design, thanks to our revolutionary surface modelling approach:

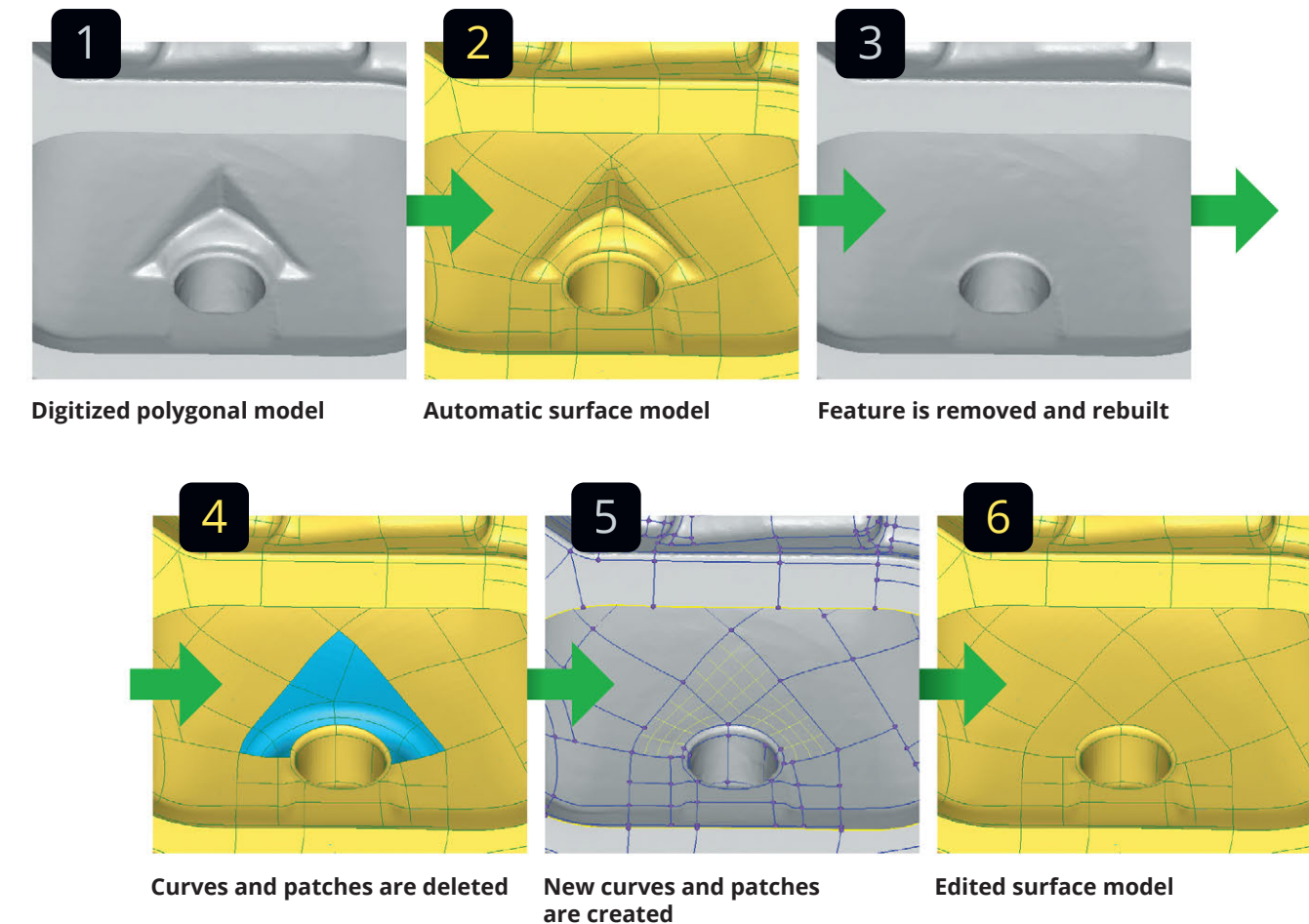
- Model a polygonal surface by automating the creation of characteristic curves and surface patches and fitting a continuous network of NURBS surfaces
- Create editable models suitable for CAD design and simulation applications by automatically bounding surface patches with continuous curves that naturally describe the part's characteristics
- Produce lighter models with better fitting accuracy and patch continuity for downstream applications by automatically adapting the patch size and aspect ratio to the part's surface curvature



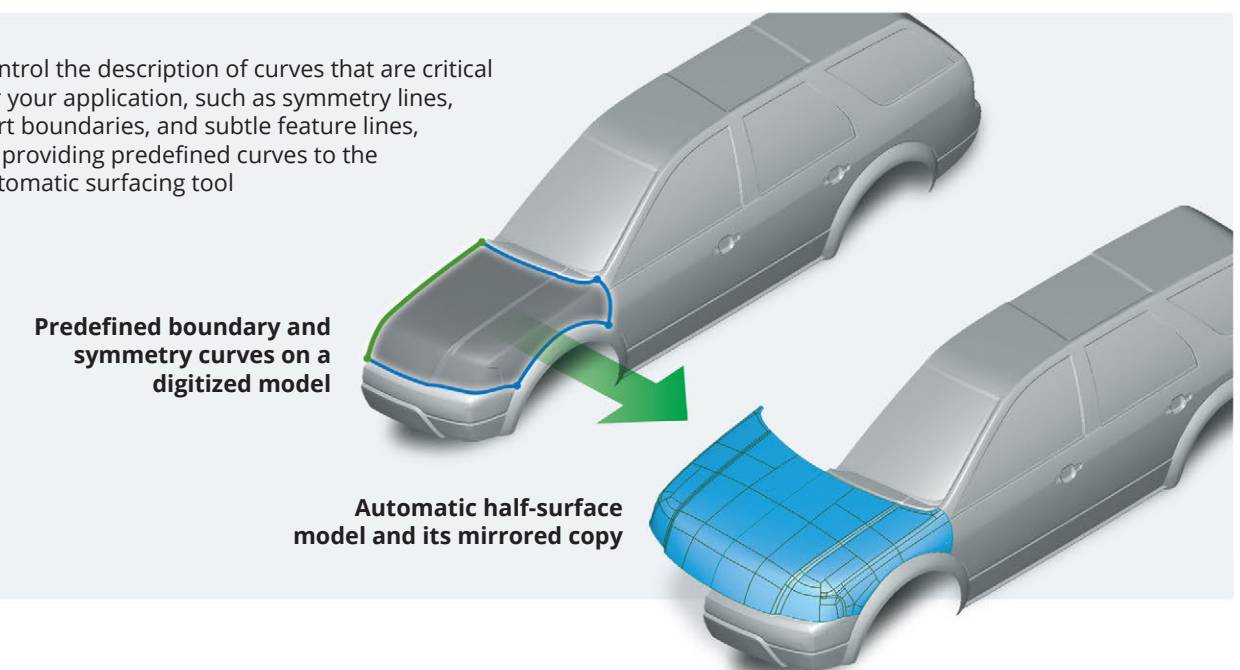
## Simplify your reverse-engineering workflow

For even greater flexibility, the automatic surfacing technology is perfectly integrated within our intuitive curve-based surfacing workflow, letting you interactively edit the curve network to create optimal surface models:

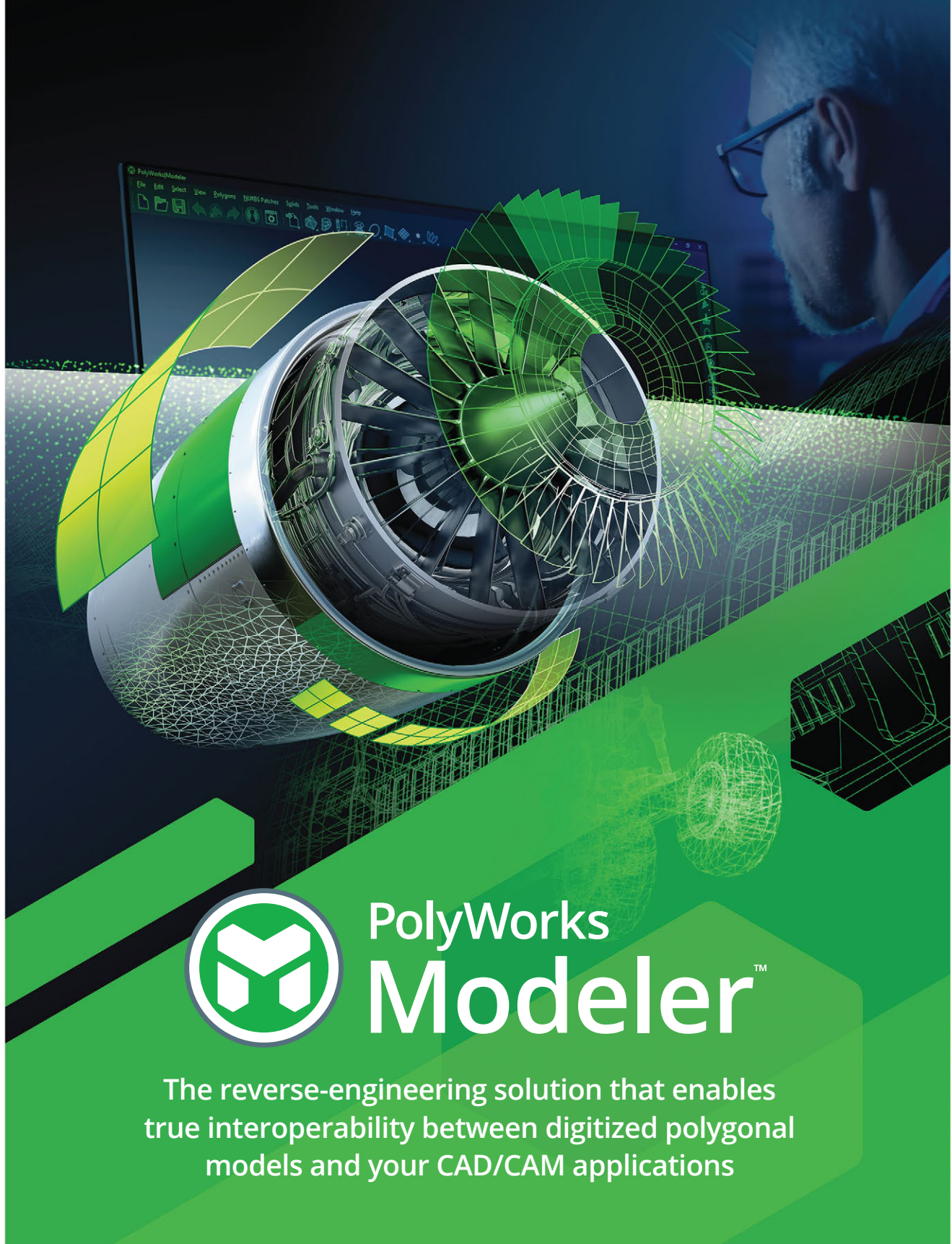
- Edit the automatic surfacing results intuitively by adding, deleting, or reshaping curves, as you would do in a manual reverse-engineering workflow



- Control the description of curves that are critical for your application, such as symmetry lines, part boundaries, and subtle feature lines, by providing predefined curves to the automatic surfacing tool







# PolyWorks Modeler™

The reverse-engineering solution that enables  
true interoperability between digitized polygonal  
models and your CAD/CAM applications

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