

What's new in



PolyWorks

Modeler™ 2021

Reverse Engineering &
3D Modeling Solution

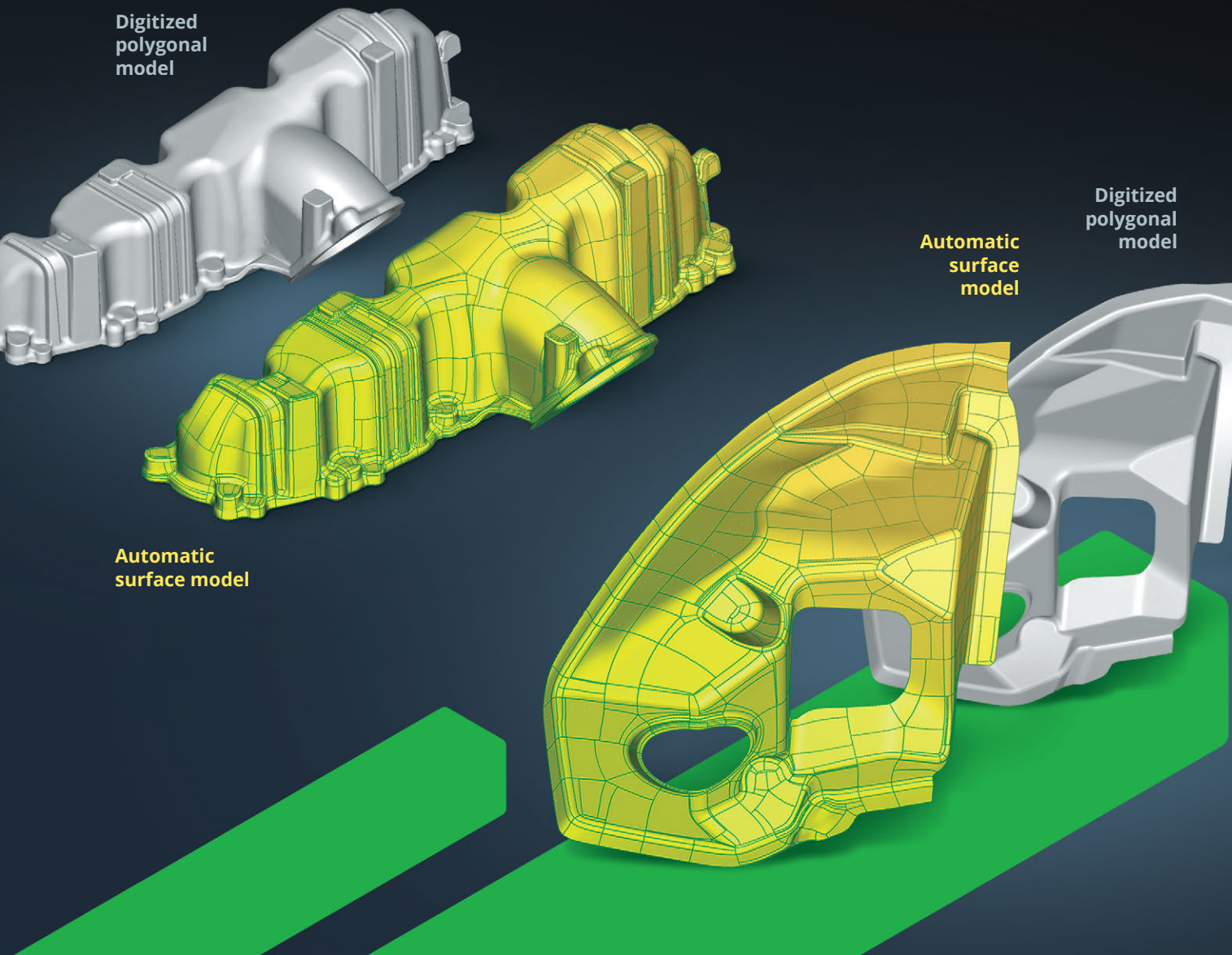
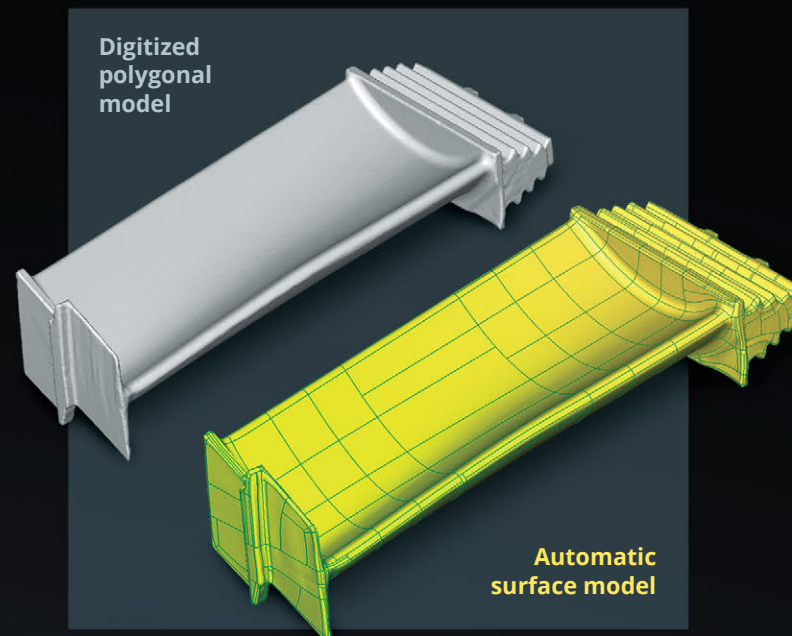
The Next-Generation
Automatic Surfacing
Solution for Smart
Reverse Engineering



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:

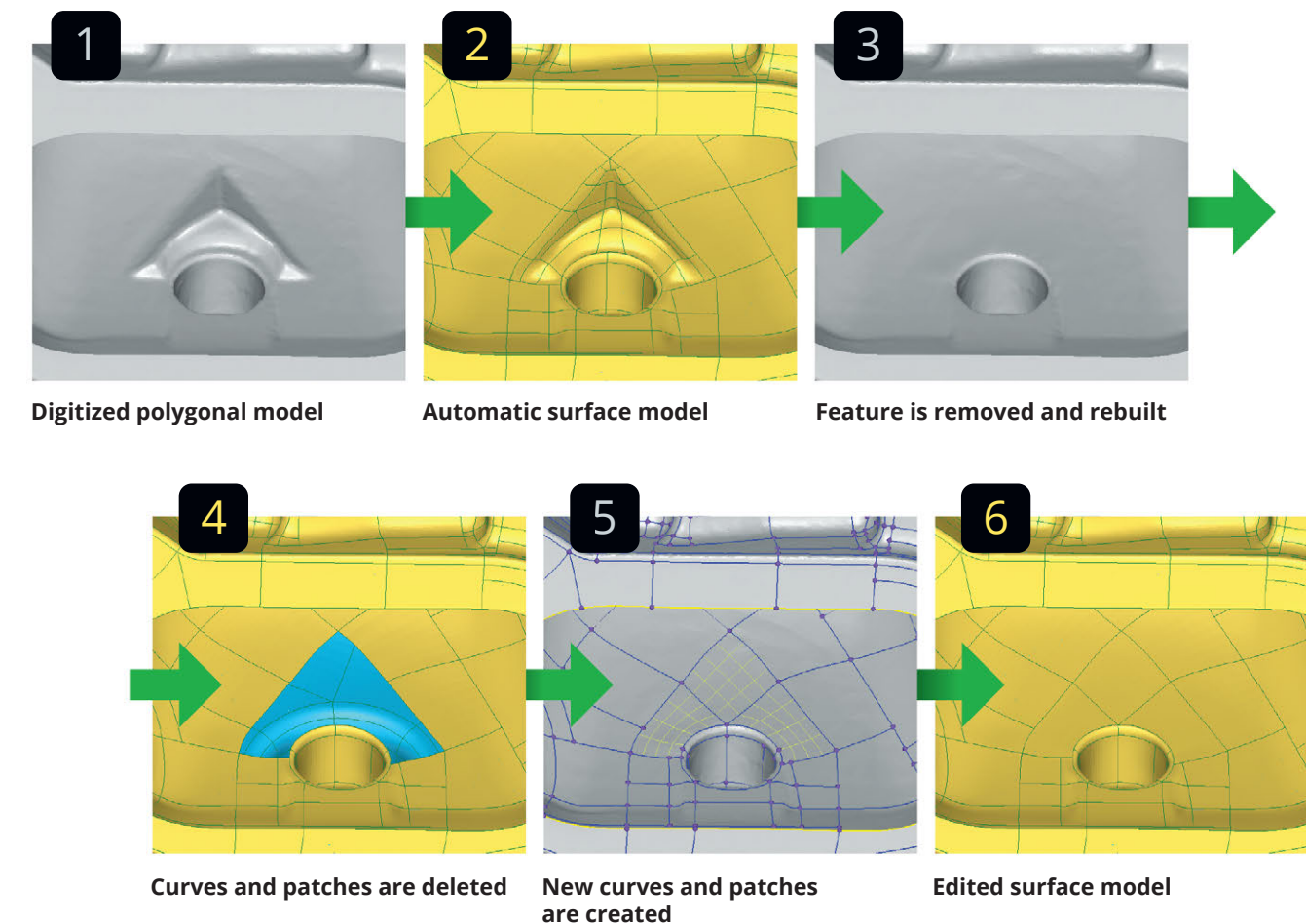
- Model a polygonal surface by automating the creation of characteristic curves and surface patches and fitting a continuous network of NURBS surfaces
- Create editable models suitable for CAD design and simulation applications by automatically bounding surface patches with continuous curves that naturally 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



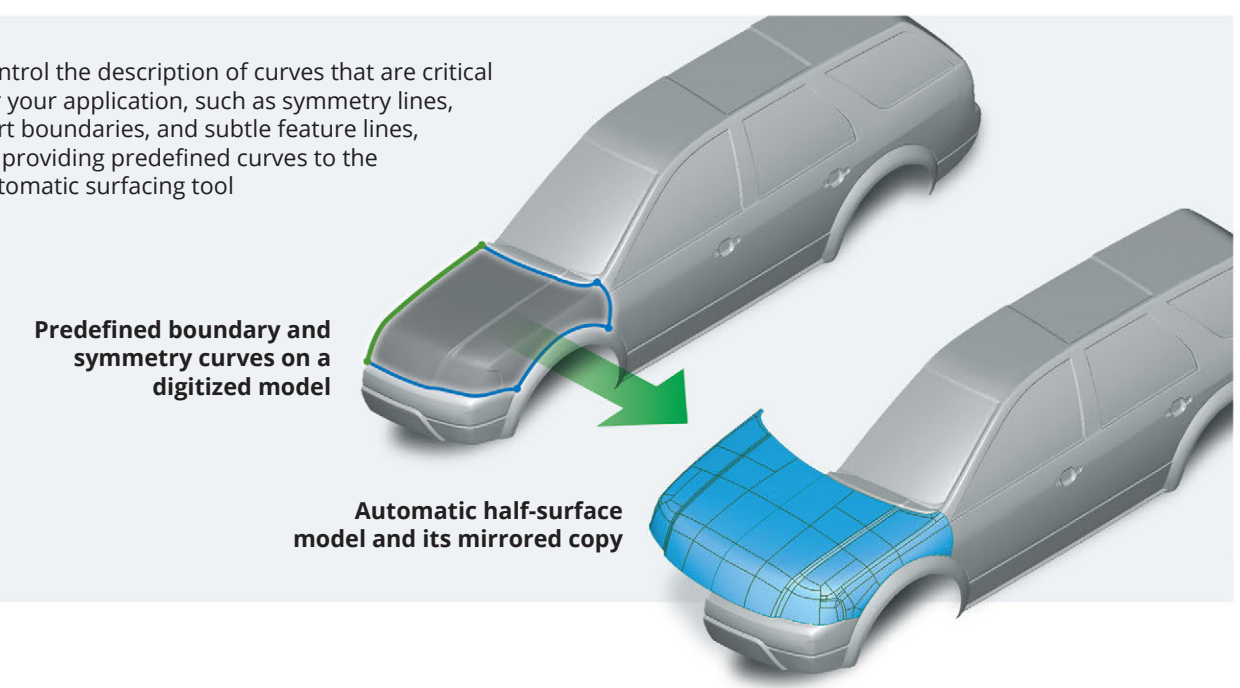
Simplify your reverse-engineering workflow

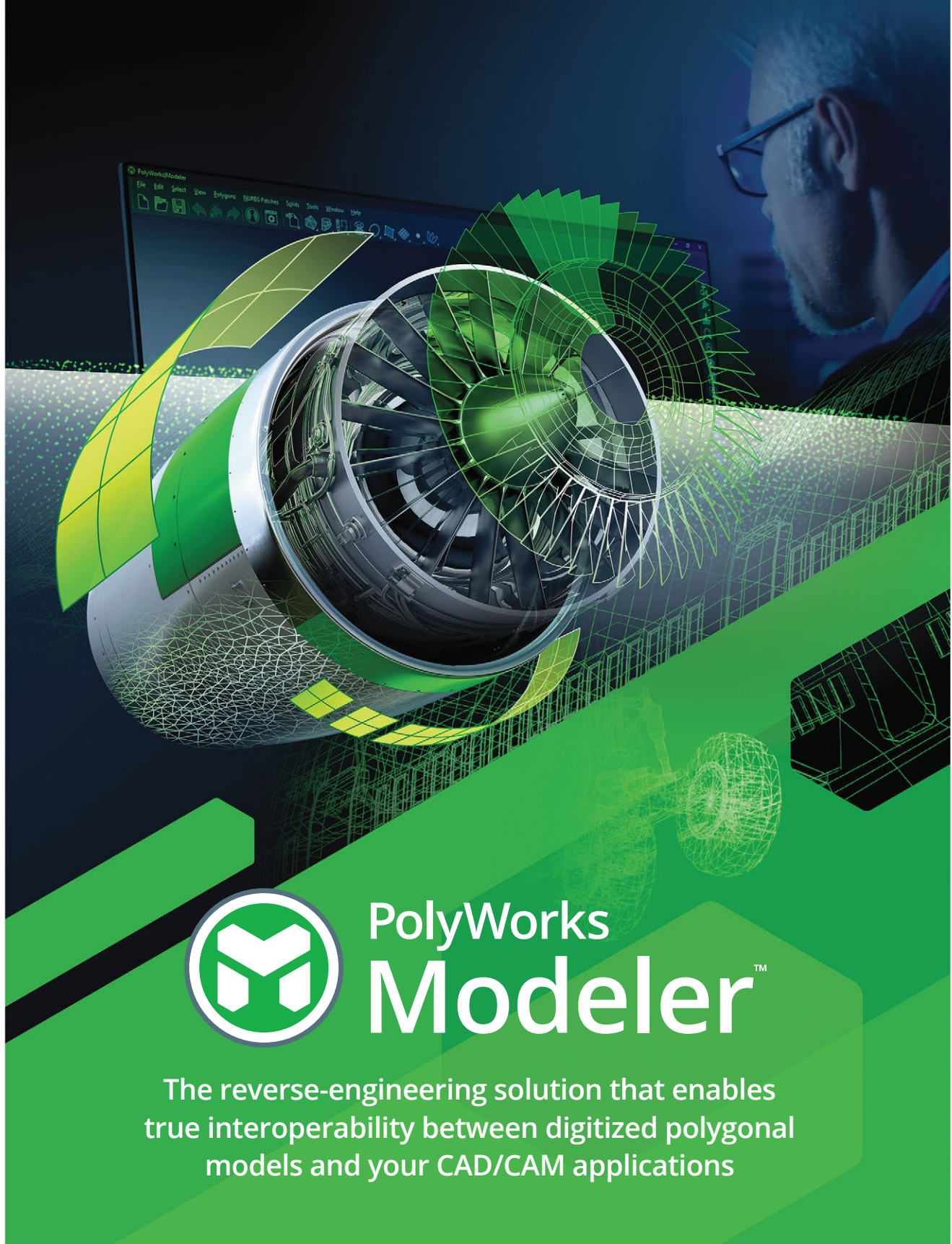
For even greater flexibility, the automatic surfacing technology is perfectly integrated within our intuitive curve-based surfacing workflow, letting you interactively edit the curve network to create optimal surface models:

- 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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