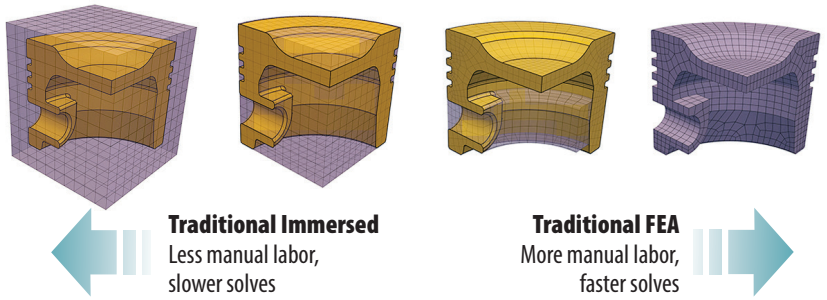
It's time for the next generation of simulation.

Reach out to discuss how Coreform IGA can solve your engineering problems.

We want to hear about your intractable FEA problems
Coreform IGA development is driven by customers in automotive, defense, nuclear energy, and other demanding industries. We want to hear about your most difficult FEA problems so we can solve them more elegantly with Coreform IGA.

What is IGA?

IGA, or isogeometric analysis, is an idea introduced in 2005 to run simulation directly on the design model, leveraging the power of splines. Thousands of papers have been written on this approach; Coreform's novel "Flex IGA" technology unlocks these benefits in a commercial setting.



Traditional Immersed
Less manual labor,
slower solves

Traditional FEA
More manual labor,
faster solves

Illustration above — Coreform's "Flex IGA" technology, where CAD geometry can be progressively fit more tightly with the spline simulation domain to enable faster solve times.

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DON'T MESH, JUST SIMULATE

Radically accelerate your engineering processes.

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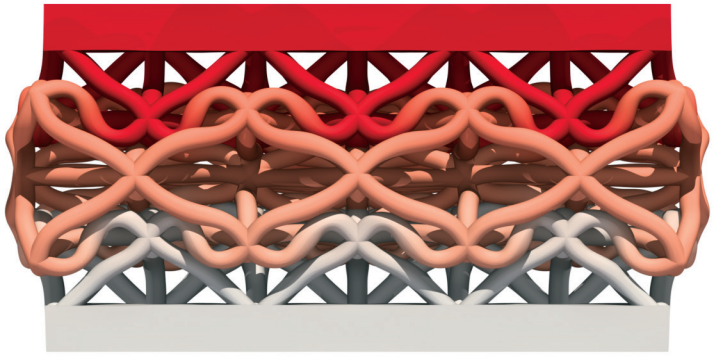
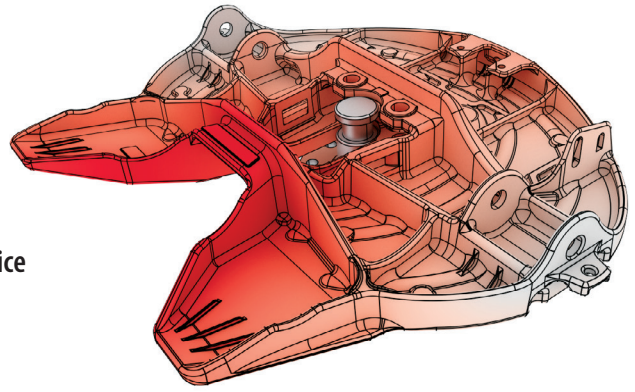
FASTER WITH GREATER PRECISION

Coreform IGA is an isogeometric analysis solver for non-linear structural mechanics. Coreform IGA leverages the power of smooth splines to deliver faster FEA solutions. It enables analysts to calibrate simulation accuracy and speed to fit any stage of the product development process.

Legacy FEA solvers require time-consuming mesh generation for every simulation. The modern Coreform IGA solver is built to run nonlinear simulations directly on CAD, scanned data, meshes, and implicit lattice structures.





Radically accelerate product development by running IGA simulations directly on lattice structures and fully featured CAD.

Image generated in collaboration with Sandia, which is managed and operated by NTESS under DOE NNSA contract DE-NA0003525. SAND2022-7001 V.

SUPERIOR ROBUSTNESS & EFFICIENCY

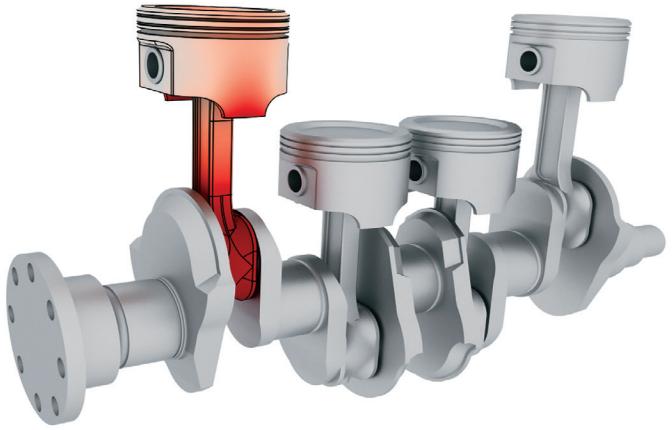
Spline basis functions provide superior robustness and efficiency over traditional FEA. Coreform IGA promises faster overall time to solution with improved accuracy.

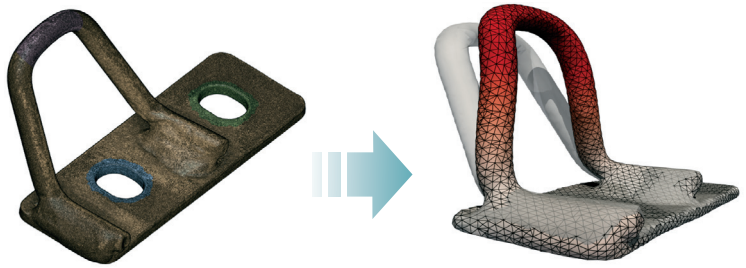
No defeaturing required

Coreform IGA offers a full spectrum of input options and flexible modeling, allowing engineers to optimize manual effort for a desired solution accuracy.

Current Coreform IGA features

Contact, Plasticity, Implicit & Explicit, Static, Dynamic, Large Deformation





Coreform IGA can run simulations directly on STL surface meshes.