

Make high added-value parts manufacturable.

Cognitive Design is a cutting-edge software solution tailored for **CAD designers** eager to accelerate **optimization** and ensure the **feasibility** of their designs, regardless of their complexity.

Combining both Simulation and Manufacturing-driven design approaches, Cognitive Design guarantees unparalleled **performance and manufacturability**, enhancing the engineering process.

With its unique proprietary geometric engine, you can now **stream-line** your design workflows and achieve optimal results **in no time**.

ACHIEVE MAXIMAL PERFORMANCE FOR ANY PART

Optimize every aspect of your design with a simulation-driven approach, making informed decisions to ensure peak performance in any scenario. **Don't just meet requirements—exceed them.**



Effectively detect geometric optimization opportunities and easily implement them with simulation-driven parametric design.



Identify the best weight reduction strategies by efficiently creating optimal shapes that meet mechanical requirements through modifications of variable structural elements (TPMS infill, lattice infill, offset, shell, and ribbing).



Enhance the performance of topologically optimized designs by refining entire part geometries or focusing on specific regions.



GENERATE MANUFACTURABLE DESIGNS AND STRENGTHEN CONNECTION WITH YOUR PRODUCTION FLOOR

Manufacturability is at the core of successful product design. Ensure your models are not only innovative but also feasible for manufacturing, streamlining your path from concept to product.



Prevent manufacturing flaws from the design stage

by ensuring feasibility with powerful manufacturing analysis tools that address feature distortion, wall thickness, support estimation, surface roughness, and more.



Achieve maximum design feasibility, no matter the complexity, through leveraging the Manufacturing-driven design approach with precise adjustments to geometry, offset and ribbing thickness, thermal concentration, holes, and powder removal parameters.



Incorporate manufacturing insights early in the design stage, reduce design iterations with the MfAM (Modify for Additive Manufacturing) approach and streamline the first-time-right flow.



ACCELERATE ADVANCED ENGINEERING TO BOOST PRODUCT DEVELOPMENT PROCESS

In a fast-paced, competitive environment, time is critical. Cognitive Design accelerates your engineering processes, enabling you to deliver high-quality results rapidly with easily reusable workflows.



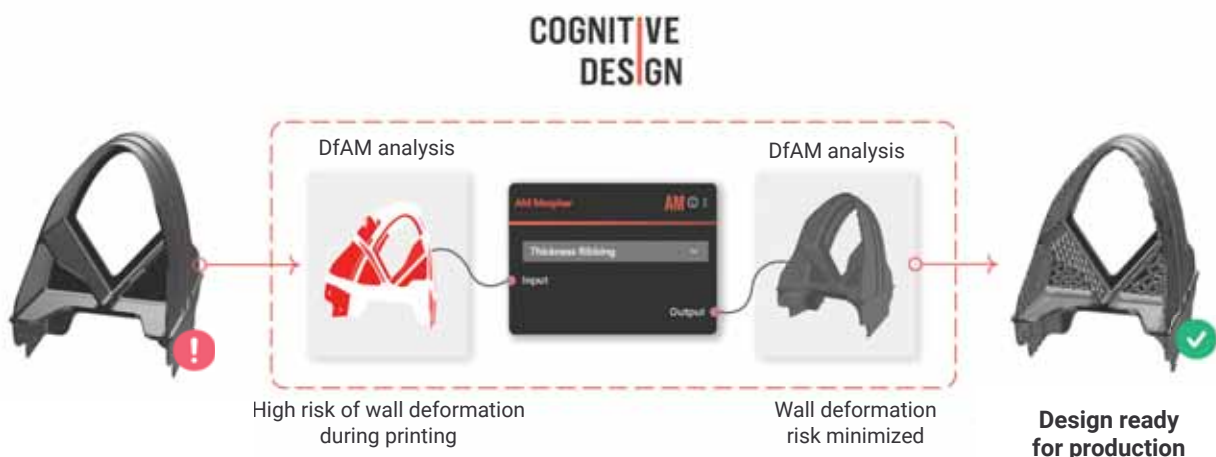
Leverage algorithmic design approach to build customized workflows without any coding expertise.



Benefit from our **a wide range of preset workflows** to quickly start optimizing your design without taking care of computational design complexity.



Iterate at lightning speed by combining the freedom of the parametric design approach and the velocity of our powerful implicit engine.



Make complex design manufacturable in minutes

With **Cognitive Design**, you can now **optimize** every aspect of your design, **streamline your processes**, and bring complex, high-value parts to life with less hassle and in less time. **Elevate your engineering with Cognitive Design.**