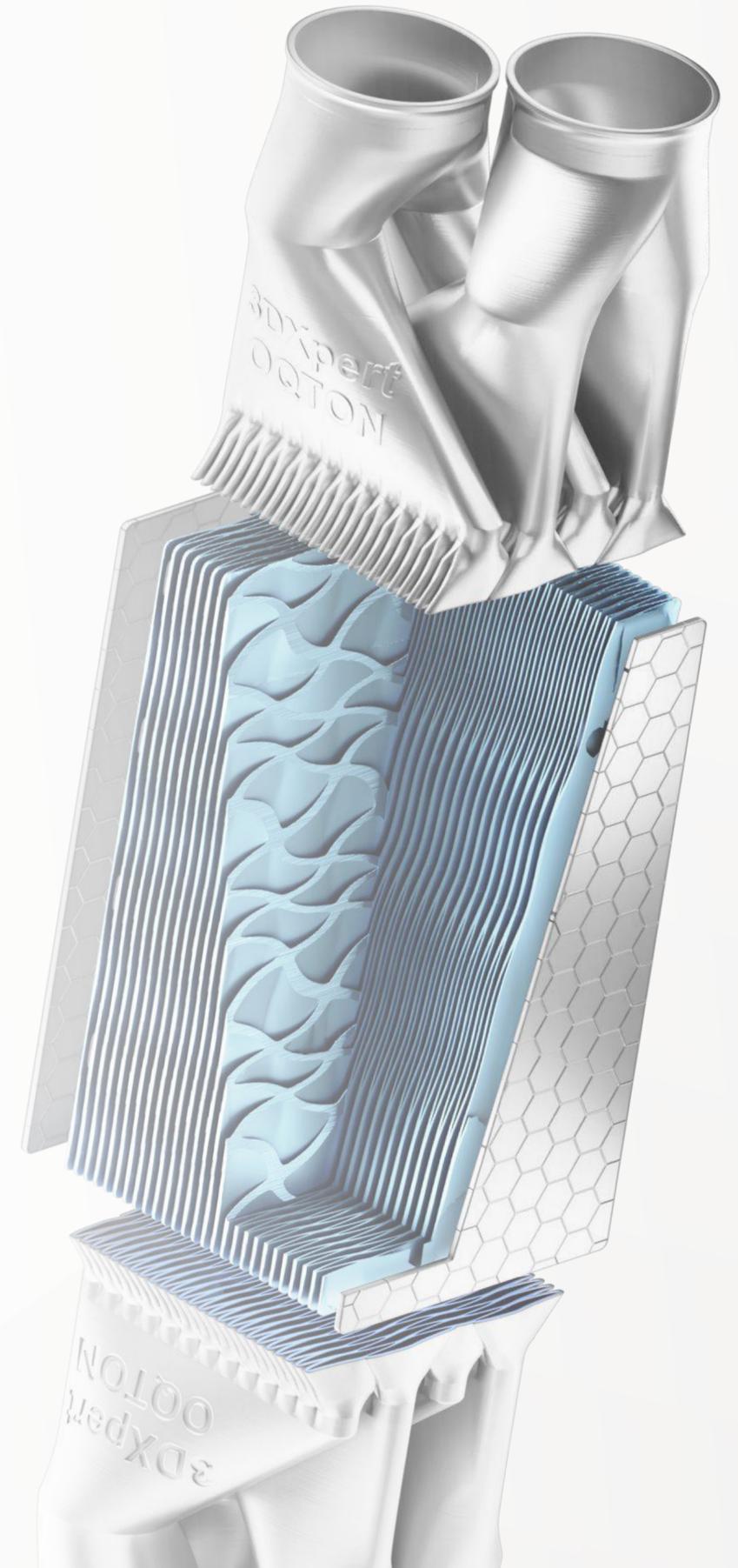
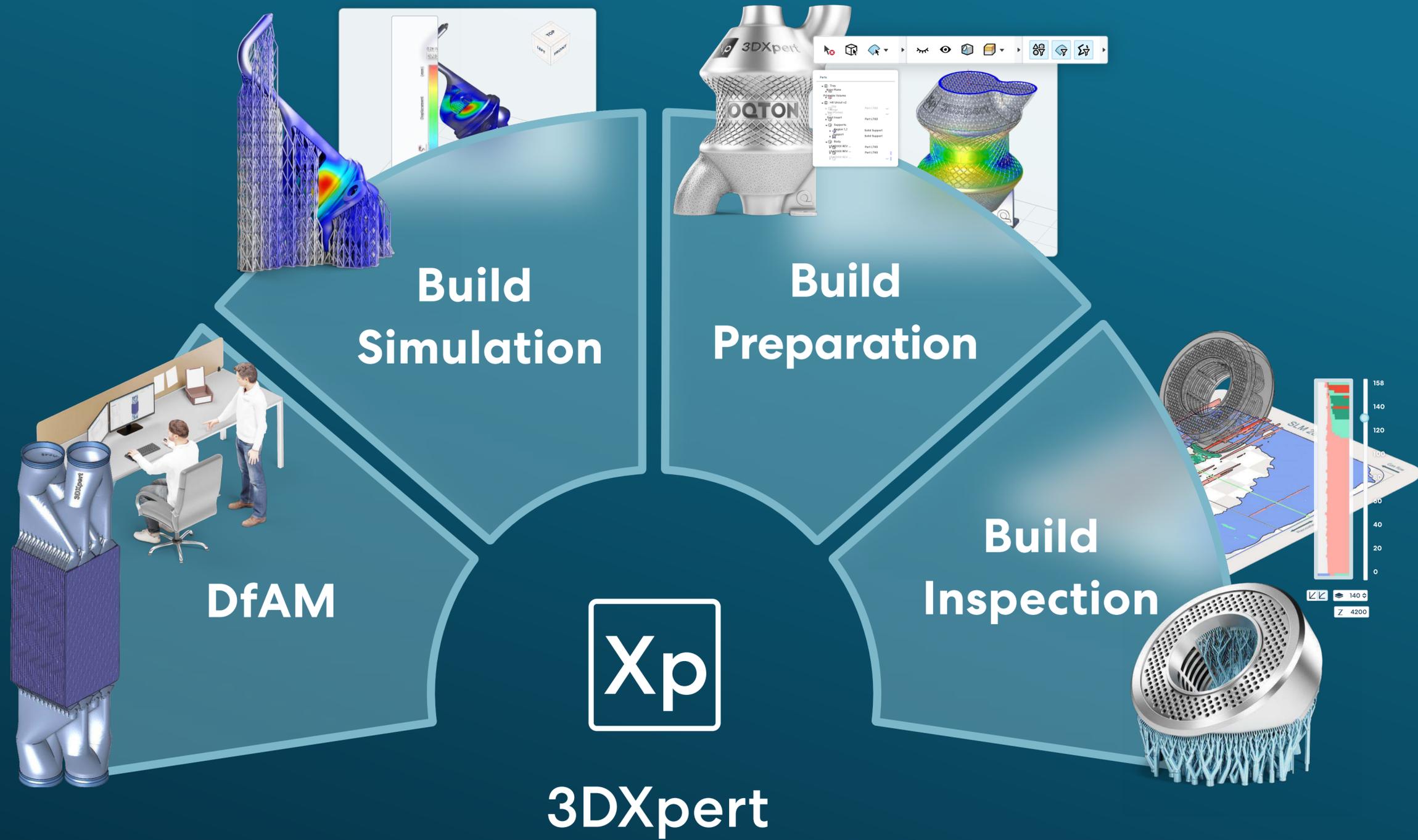




Introduction to 3DXpert

All-In-One AM Software



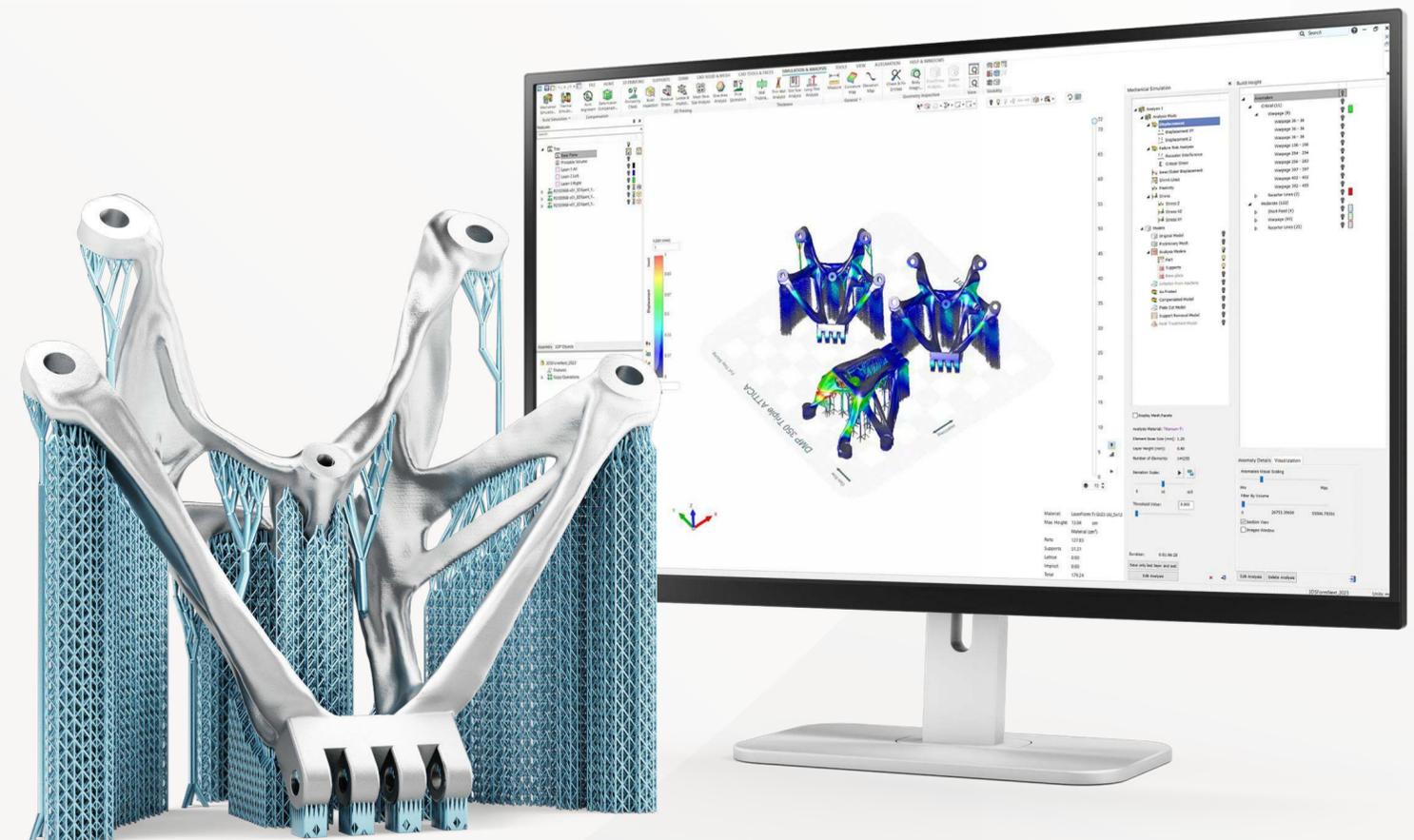


All-In-One Industrial Additive Manufacturing Software

3DXpert is the complete software solution for additive manufacturing, from design to printing. Quickly and efficiently transition from a CAD model to a high-quality, 3D-printed part.

3DXpert is the best solution to support the disruptive shift from rapid prototyping to serial AM production.

- Hybrid DfAM & Applications
- End-to-end parametric Build Prep
- Process Simulation
- Automation
- Inspection



Bring Out The Big Toolbox

Capabilities for every additive manufacturing application and process

Import Parts

Import any CAD format, maintain CAD integrity, and analyze for printability.



Position and Modify

Set part orientation with real-time analysis of support and down-facing areas.



Design for AM

Use Topology Optimization, Lattice design, Implicit Modeling, and FEA to lightweight & optimize structures.



Design Supports

Analyze parts to automatically or manually create supports for overhanging regions.



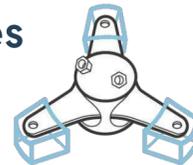
Simulate Builds

Perform end-to-end fault prediction within the design environment to verify part builds.



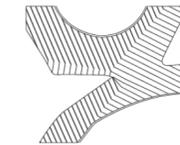
Optimize Printing Strategies

Shorten printing time and ensure high quality surface finish.



Calculate Scan Path

Optimize slicing and hatching to ensure repeatability and quality.



Arrange Build Platform

Use the operator edition to easily position parts on the tray and send them to print.



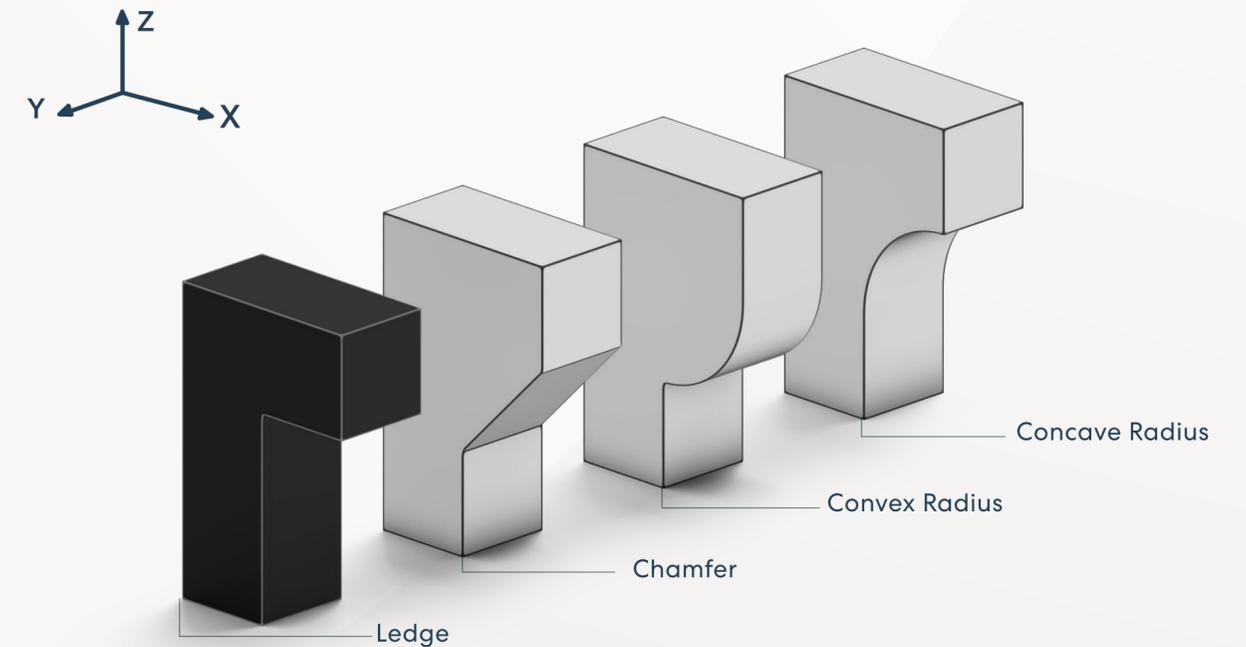
Maximize Part Performance

Design for Additive Manufacturing

3DXpert provides a dedicated design toolset required for light-weighting, texturing, and printability modifications.

Constructed with manufacturability in mind, **3DXpert puts the M in DfAM.**

- Topology Optimization
- TPMS and beam-based lattices
- Texturing
- Conformal cooling & Manifold Design
- Implicit Modeling
- Dedicated Heat Exchanger Design application



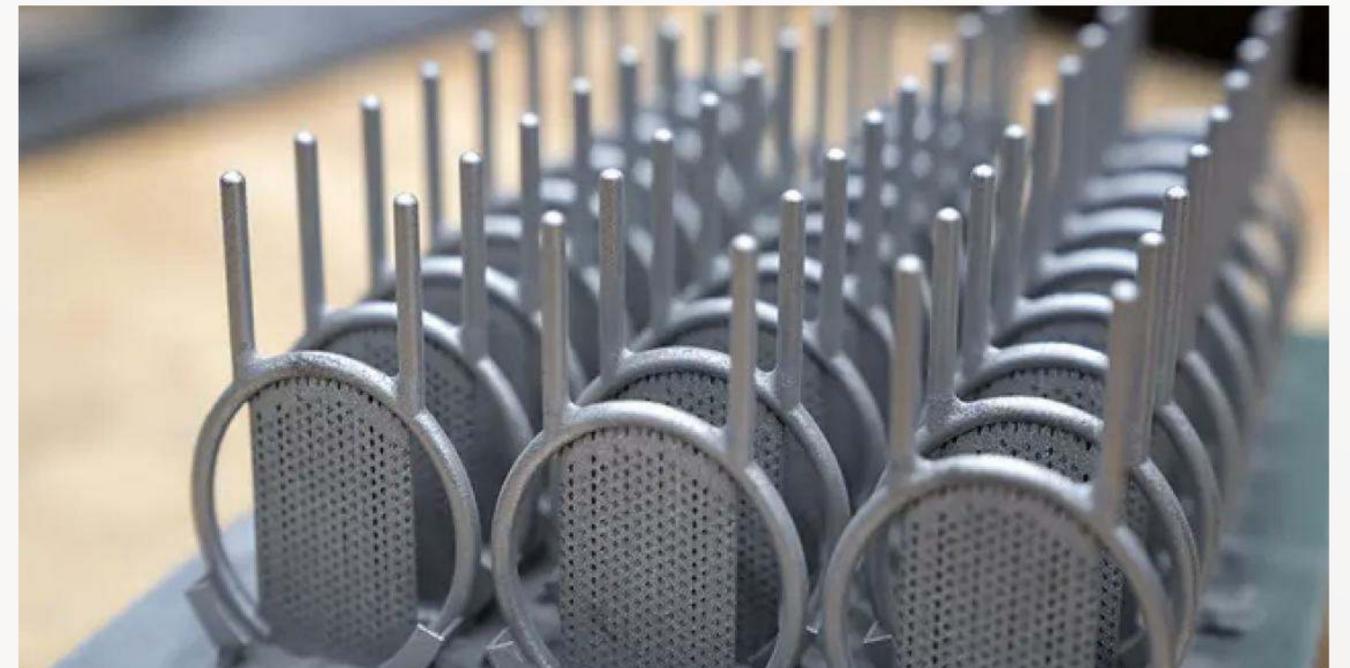
Minimize manufacturing costs

Build Preparation And Slicing

3DXpert helps you keep the relatively high costs of 3D printing **as low as possible**. Reduce tryouts in your way to your first article, **avoid costly mistakes**, and **optimize your printing process**.

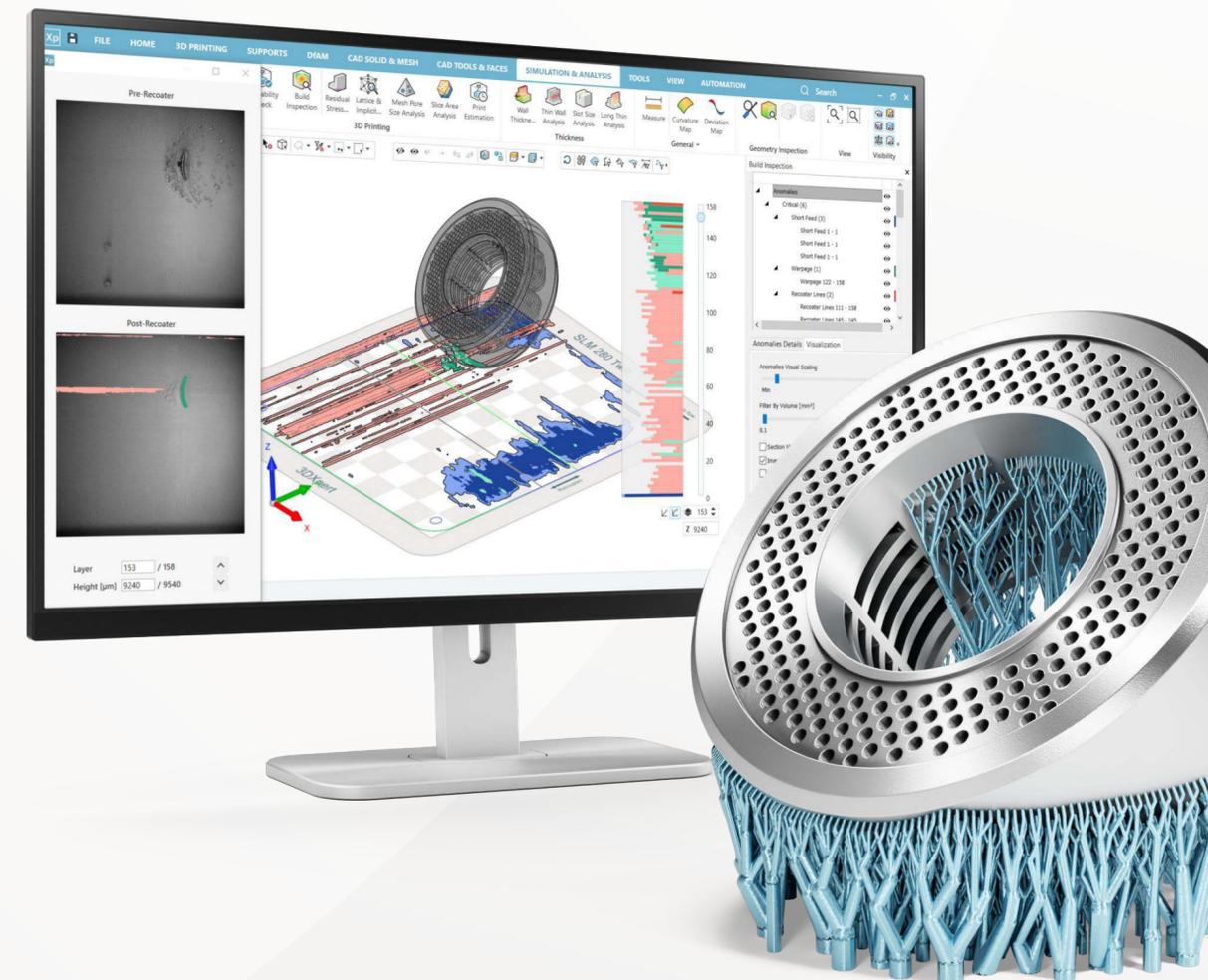
With complex parts, 3DXpert gives you peace of mind.

- Decision support Process Simulation - avoid failed builds
- Single environment - avoid costly errors in file transfers
- Save time and errors through automation
- Reduce material consumption
- Cost estimation and reports



Pioneer new additive quality standards

- **3DXpert Build Simulation:** Predict deformation and overheating of parts in context with AM build preparation.
- **Manufacturing OS Build Monitoring:** Act fast with real-time anomaly information to save material, reduce scrap, machine time, post-processing time, and operator time. Trace and archive full quality history and reduce the need for CT scan.
- **3DXpert Build Inspection:** Analyze and trace additive part quality in context with build preparation and build simulation. Increase print-success confidence, perform root-cause analysis, and achieve additive design improvements.



Thank you

 www.oqton.com

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