

# 10 reasons to choose **STAR-CAT5**

**1. Speculate, Simulate, Innovate!**  
STAR-CAT5's PLM-embedded flow simulation enables engineers to evaluate "what-if" design scenarios, quickly and easily. Its bi-directional associativity means all changes to the CAD model are reflected in the CFD results, at the click of a button. STAR-CAT5 equips you with the insight to deliver products to market faster, while improving quality.

**2. Enable your design engineers**  
STAR-CAT5 has been specifically developed for design and project engineers. Transparent terminology and intelligent parameter selection allow the user to concentrate on evaluating results and optimizing designs.

**3. Keeping high productivity a priority**  
By working directly with CATIA V5 Parts and Assemblies, no errors are introduced through data translation and there's no need for time-consuming CAD fixing.

**4. Shorten your learning curve**  
STAR-CAT5 is unique for being truly embedded into the familiar CATIA V5 environment. Its intuitive and transparent interface allows users to go from CAD to flow solution a single, easy-to-use environment.

**5. Add flow data to your PLM solution**  
STAR-CAT5 uniquely stores information within the native data structure of the CATIA V5's PLM system, making results readily accessible and traceable throughout the design process.

**6. No compromises: Get more accurate results faster!**  
By using CD-adapco's unique Polyhedral cells, STAR-CAT5 is able to automatically mesh complex geometries without the inaccuracies of tetrahedra. Polyhedra have the advantages of being:

- **Fast:** CD-adapco's polyhedra have been extensively tested and shown to converge up to 10 times faster than a comparable tetrahedral mesh.
- **Robust:** The flexibility of being able to use arbitrary polyhedral cells makes meshing complex geometries trivial; unlike hexahedral meshers which require extensive user intervention.
- **Accurate:** Back-to-back comparisons with tetrahedral meshes demonstrate polyhedra's excellent numerical properties: giving far superior accuracy than tetrahedral meshes.
- **Efficient:** Polyhedra produce a better solution, with fewer cells, using less memory than tetrahedra.

CATIA V5  
Start File Edit View Insert Tools Window Help

**7. Share it with your customer**  
STAR-CAT5's 3D results viewer is a unique, light, interactive result file that can be sent to third parties at no extra cost to you or them. It allows you to zoom, pan and translate your way around the flow results. Integrating it into an MS PowerPoint presentation allows you to deliver results directly to your manager or client.

**8. Be driven by physics ...**  
... not the limits of your software. CD-adapco's solutions have the most complete set of physical models on the CFD market place. Let your simulations be defined by the physics of your problem, not the limits of your software.

**9. Join a 5000+ customer community**  
CD-adapco supplies CFD software to over 5000 users worldwide, making us a leader in the global CFD market. Our products are their tried, tested and trusted solution. 25 years in the CAE business, combined with our technology focus means CD-adapco's state-of-the-art simulation tool-kit is highly optimized. Benchmark STAR-CAT5 to discover how it solves your problems faster than newcomers' immature alternatives.

**10. Benefit from CD-adapco's vast CAE experience**  
Your interaction with CD-adapco doesn't have to stop when the software is installed. We pride ourselves on delivering a complete CAE solution. Our experienced engineers can provide you with as much assistance as you require. This can include:

- Training,
- Mentoring,
- Consult off-site,
- Consult on-site to maximize knowledge-transfer,
- Take on peak workload,
- Take on peak workload computing,
- Help optimize your CFD process,
- Validate simulation results,
- And much more...

CD-adapco has been in the CAE business for 25 years, our experience allows us to deliver the complete CAE service.

STAR-CAT5 allows the user to operate seamlessly, with full associativity, within the native PLM environment of CATIA V5. This upfront CFD package is the front-door to the full-spectrum CFD software available from CD-adapco.



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