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Collier Research's Latest Version of HyperSizer Software Takes a Whole New Approach to Composites Optimization

Self-configures to loading environment, with optimization speeds up to 1000 times faster

HAMPTON, Va., June 26, 2013—Collier Research Corporation's newly released Version 6.4.5 of HyperSizer composite structural analysis and optimization software not only runs much faster, it's now based on a reconfigured core technology with built-in "intelligence" that produces more accurate answers with less user input.

"We've developed a completely different approach that will make the general engineer's job easier while providing reliable results much faster than before," says [Collier Research](#) president and founder Craig Collier. "The software requires less input from the user to set up an optimization of, say, an aerospace structural component or a wind turbine blade. It looks at load magnitude and from there is able to configure itself automatically to do a pre-setup of the proper optimization parameters. This gives the engineer consistent, reliable results regardless of their expertise level."

The analysis engine of v6.4.5 takes advantage of today's high-performance computing technology to speed up runs by 200 to 400% across the board. Optional quick sizing and variable tuning capabilities are as much as 1000 times faster.

The new version now supports nonlinear and dynamic load stepping Abaqus and Nastran FEA solutions. For the wind industry, weight/cost optimization has also been added to enable engineers to include the effects of material choices on tools, labor, facilities, etc., when studying tradeoffs between carbon fiber and fiberglass. For a full list of HyperSizer capabilities click [here](#).

"Today, many industries use composites," says Collier. "You read a lot about failure prediction and test certification, but I believe the fundamental issue has more to do with designing structures properly in the first place.

"For many engineers, a working knowledge of composite design and optimization will be an essential requirement for future product development," he adds. "If you really want organizations to be successful implementing composites, we're going to have to start making the process less complicated. This latest version of HyperSizer software is an important step in that direction."

The first-ever software commercialized out of NASA, HyperSizer is the flagship product of Collier Research Corporation. HyperSizer provides stress analysis and sizing optimization, reducing the weight of aircraft, space vehicles, wind turbine blades and other structures, whether designed with composite or metallic materials.

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