



Structural Optimization from VR&D Added to PADT Portfolio

PADT is now a reseller of the GTAM and GENESIS optimization tools from Vanderplaats R&D, offering leading structural geometry and topological optimization tools to enable simulation for components made with 3D Printing.

TEMPE, Ariz. - March 24, 2015 - [PRLog](#) -- Phoenix Analysis & Design Technologies, Inc. (PADT, Inc.), the Southwest's largest provider of simulation, product development, and 3D Printing services and products, is pleased to announce that an agreement has been reached with Vanderplaats Research & Development, Inc. (VR&D) for PADT to become a distributor of VR&D's industry leading structural optimization tools in the Southwestern United States. These powerful tools will be offered alongside ANSYS Mechanical as a way for PADT's customers to use topological optimization and shape optimization to determine the best geometry for their products.

The GENESIS program is a Finite Element solver written by leaders in the optimization space. It offers sizing, shape, topography, topometry, freeform, and topology optimization algorithms. No other tool delivers so many methods for users to determine the ideal configuration for their mechanical components. These methods can be used in conjunction with static, modal, random vibration, heat transfer, and buckling simulations. More information on GENESIS can be found at <http://www.vrand.com/Genesis.html>.

PADT recommends that ANSYS Mechanical users who require topological optimization access GENESIS through the GENESIS Topology for ANSYS Mechanical tool, or GTAM. This extension runs inside ANSYS Mechanical, allowing users the ability to use their ANSYS models and the ANSYS user interface while still accessing the power of GENESIS. The extension allows the user to setup the topology optimization problem, optimize, post-processing, export optimized geometry all within ANSYS Mechanical user interface.

“We had a customer ask us to find a topological optimization solution for optimizing the shape of a part they were manufacturing with 3D Printing. We tried GTAM and immediately found it to be the type of technically superior tool we like to represent” commented Ward Rand, a co-owner of PADT. “It didn't take our engineers long to learn it and after receiving great support from VR&D, we knew this was a tool we should add to our portfolio.”

Besides reselling the tool, PADT is adopting both GENESIS and GTAM as their internal tools for shape optimization in support of their growing consulting in the area of design and simulation for Additive Manufacturing, popularly known as 3D Printing. PADT combines these with ANSYS SpaceClaim and Geomagic Studio to design and optimize components that will be created using 3D Printing.

“We are thrilled to partner with PADT because of their deep knowledge in simulation, additive manufacturing, and 3D printing and for their extraordinary ability to help their clients”, stated Juan Pablo Leiva, President and COO of VR&D, “We feel that their unique talents are crucial in supporting clients in today's demanding and changing market.”

To learn more about the GENESIS and GTAM products, visit <http://www.padtinc.com/vrand> or contact our

technical sales team at 480.813.4884 or sales@padtinc.com.

About Phoenix Analysis and Design Technologies

Phoenix Analysis and Design Technologies, Inc. (PADT) is an engineering service company that focuses on helping customers who develop physical products by providing Numerical Simulation, Product Development, and Rapid Prototyping products and services. PADT's worldwide reputation for technical excellence and an experienced staff is based on its proven record of building long term win-win partnerships with vendors and customers. Since its establishment in 1994, companies have relied on PADT because "We Make Innovation Work." With over 75 employees, PADT services customers from its headquarters at the Arizona State University Research Park in Tempe, Arizona, its Littleton, Colorado office, Albuquerque, New Mexico office, and Murray, Utah office, as well as through staff members located around the country. More information on PADT can be found at www.PADTINC.com.

About Vanderplaats Research & Development

Since its founding in 1984, Vanderplaats Research & Development, Inc. (VR&D) has advocated for the advancement of numerical optimization in industry. The company is a premier software company, developing and marketing a number of design optimization tools, providing professional services and training, and engaging in ongoing advanced research. VR&D products include GENESIS, GTAM, VisualDOC, Design Studio, SMS, DOT, and BIGDOT. For more information on VR&D, please visit: www.vrand.com.

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