

## **North Thin Ply Technology Licenses VABS Software for Modeling High End Composite Golf Shafts and Other Performance Tubular Structures**

*North Logan, Utah (USA), October 16th, 2017-* [AnalySwift, LLC](#), a provider of efficient high-fidelity modeling software for composites and other advanced materials, announced today that North Thin Ply Technologies has licensed its VABS software for simulation of high end composite golf club shafts and other tubes for use in aerospace, industrial and sports applications.

Based in Renens, Switzerland, North Thin Ply Technology (NTPT™) is a world leader in lightweight, thin ply prepreg materials and process automation technologies for use in the field of composites. The company's focus is delivering composite solutions to sectors with a demand for performance such as motorsport, marine, aerospace, sporting goods, and luxury accessories. NTPT™ has licensed the VABS beam modeling software initially for simulation of their innovative line of composite golf club shafts, TPT Golf™, as well as other tubes, including those used for sport and industrial applications. While NTPT's first commercial application was golf shafts, other potential applications include automotive drive shafts, aircraft struts, landing gear, and windsurf masts. These and other sports equipment shafts and frames are several instances of ideal applications for tubular structures where weight, performance, and cost are critical factors.

"We are excited to announce our relationship with North Thin Ply Technologies, where we have been impressed with their work on a variety of slender composite structures, particularly tubes," said Allan Wood, president and CEO of AnalySwift. "VABS provides a uniquely rigorous solution as a general-purpose cross-sectional analysis tool for quickly computing beam sectional properties and recovering 3D fields of slender composite structures. This includes not only composite tubes, but also composite helicopter and wind turbine rotor blades, as well as other slender composite parts, such as fishing rods, landing gear, propellers and high-aspect ratio wings."

"The VABS beam modeling software provides a cornerstone of our structural analysis capabilities and response simulation work. It forms an essential part of NTPT's design and engineering tool box and is used daily as we continue the development of our range of advanced composite tubular products," commented Thomas Ricard, NTPT™ Technical Director – Materials & Automation.

“VABS is capable of rigorously decoupling an original 3D slender solid with complex cross-sections into a simple engineering beam model,” according to Dr. Wenbin Yu, CTO of AnalySwift. “With continuous development funded by the US Army spanning over 20 years for performance and robustness, VABS’ accuracy has been extensively verified by its developers and users.”

Ends

### **About North Thin Ply Technology (NTPT)**

North Thin Ply Technology (NTPT™), headquartered in Renens, Switzerland, produces a range of weight saving prepreg materials, including UD tapes of 15-600 g/m<sup>2</sup>, conventional prepreps, multiaxial preforms, and machinable carbon fibre blocks. The company also produces highly uniform composite tubes and automated tape laying (ATL) machines. NTPT™’s products are used in numerous high-performance composite applications in the marine, motorsports, industrial, electronics, aerospace, sports and luxury goods sectors. [www.thinplytechnology.com](http://www.thinplytechnology.com)

### **About AnalySwift**

AnalySwift, LLC is a provider of composite software, which enables an unprecedented combination of efficiency and accuracy, including multiphysics structural and micromechanics modeling. Drawing on cutting edge university technology, AnalySwift’s powerful solutions provide customers a competitive advantage through drastic reductions in engineering time, virtual testing earlier in the design process, and handling of more complex composite structures. Our technologies deliver the accuracy of detailed 3D FEA at the efficiency of simple engineering models, cutting analysis time by orders of magnitude.

VABS is licensed from Utah State University and Georgia Institute of Technology (Georgia Tech).

AnalySwift is a member of the [Institute for Advanced Composites Manufacturing Innovation \(IACMI\)](http://www.iacmi.org). Find out more at [www.analyswift.com](http://www.analyswift.com).

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