





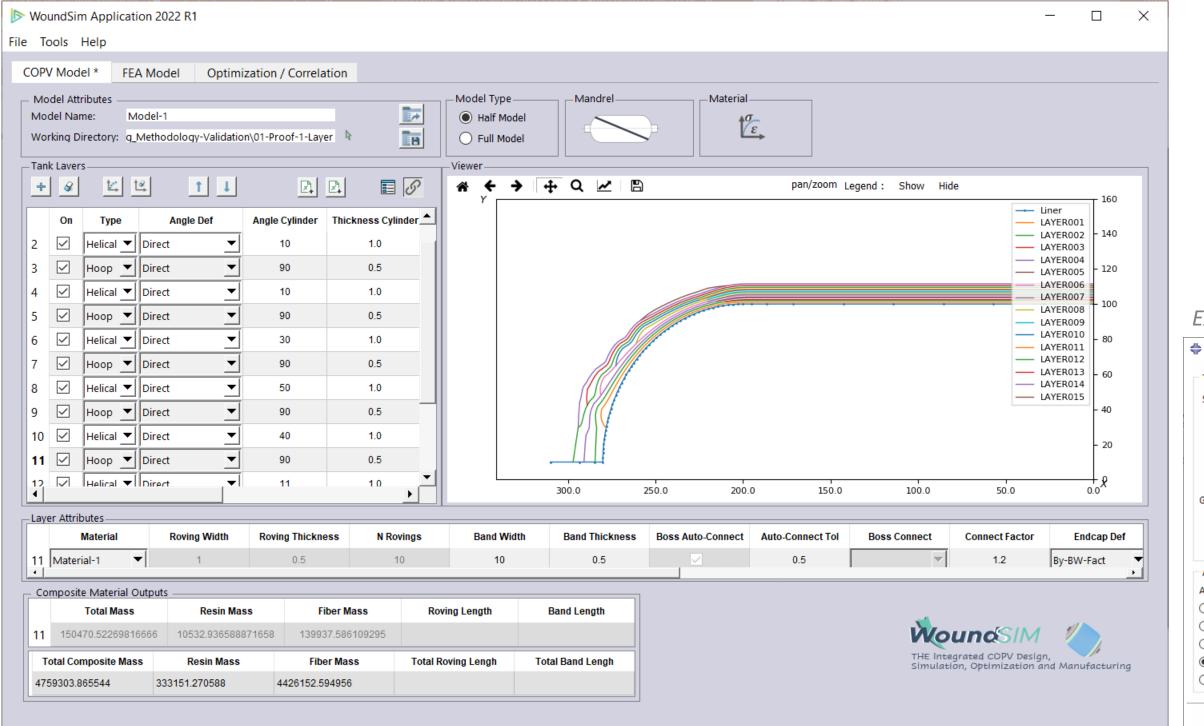




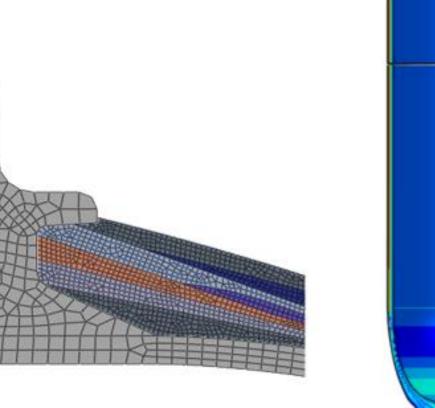


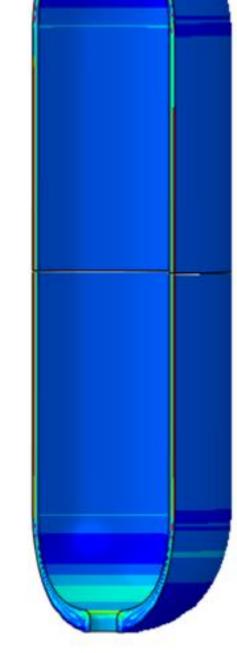
WoundSim-2022 Major Release Main New Features

- ✓ New user-friendly GUI,
- ✓ Flexible layup construction with advanced LAYER-BY-LAYER controls,
- ✓ Support for DOILIES,
- ✓ Geometry SMOOTHING parameters and tapered layer endcaps,
- ✓ Enhancements to WIND ANGLES computation near layer turn-around positions,
- ✓ Abaqus/EXPLICIT solver support to model drop tests and high-speed impacts,
- ✓ Enhanced MESHING parameters including automatic mesh possibility,

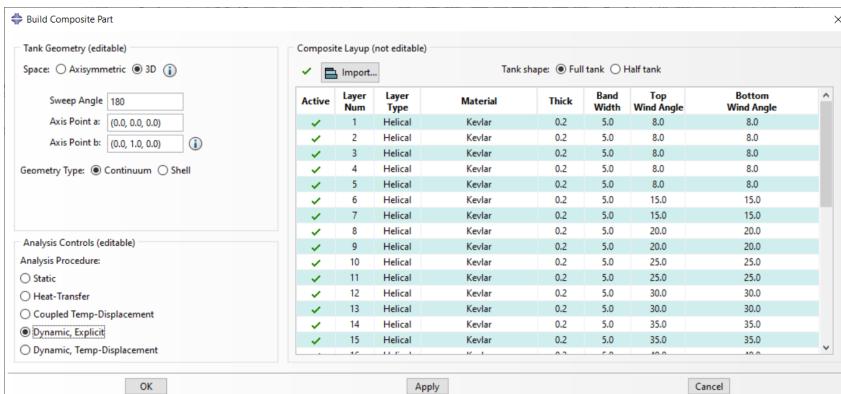




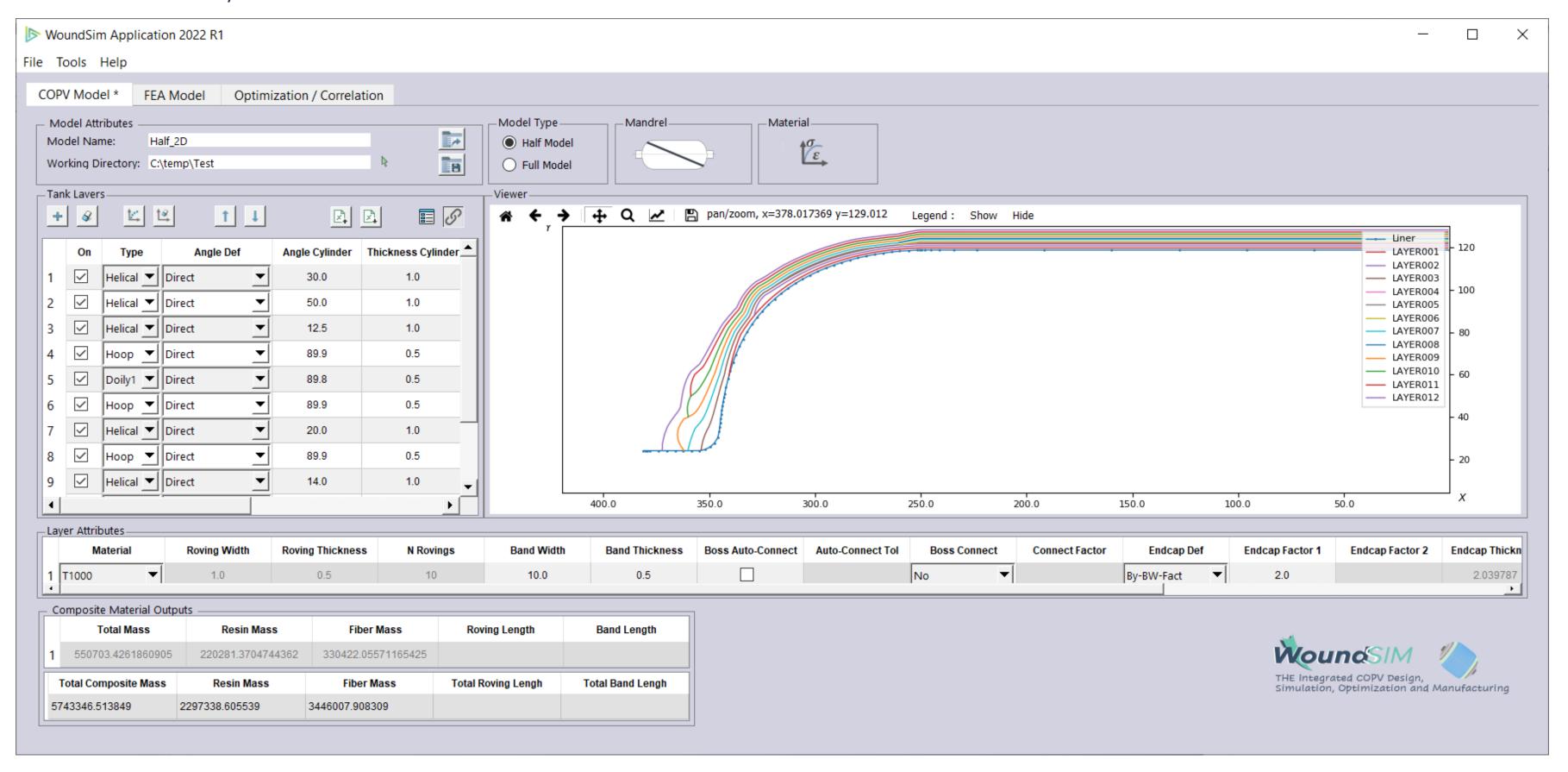




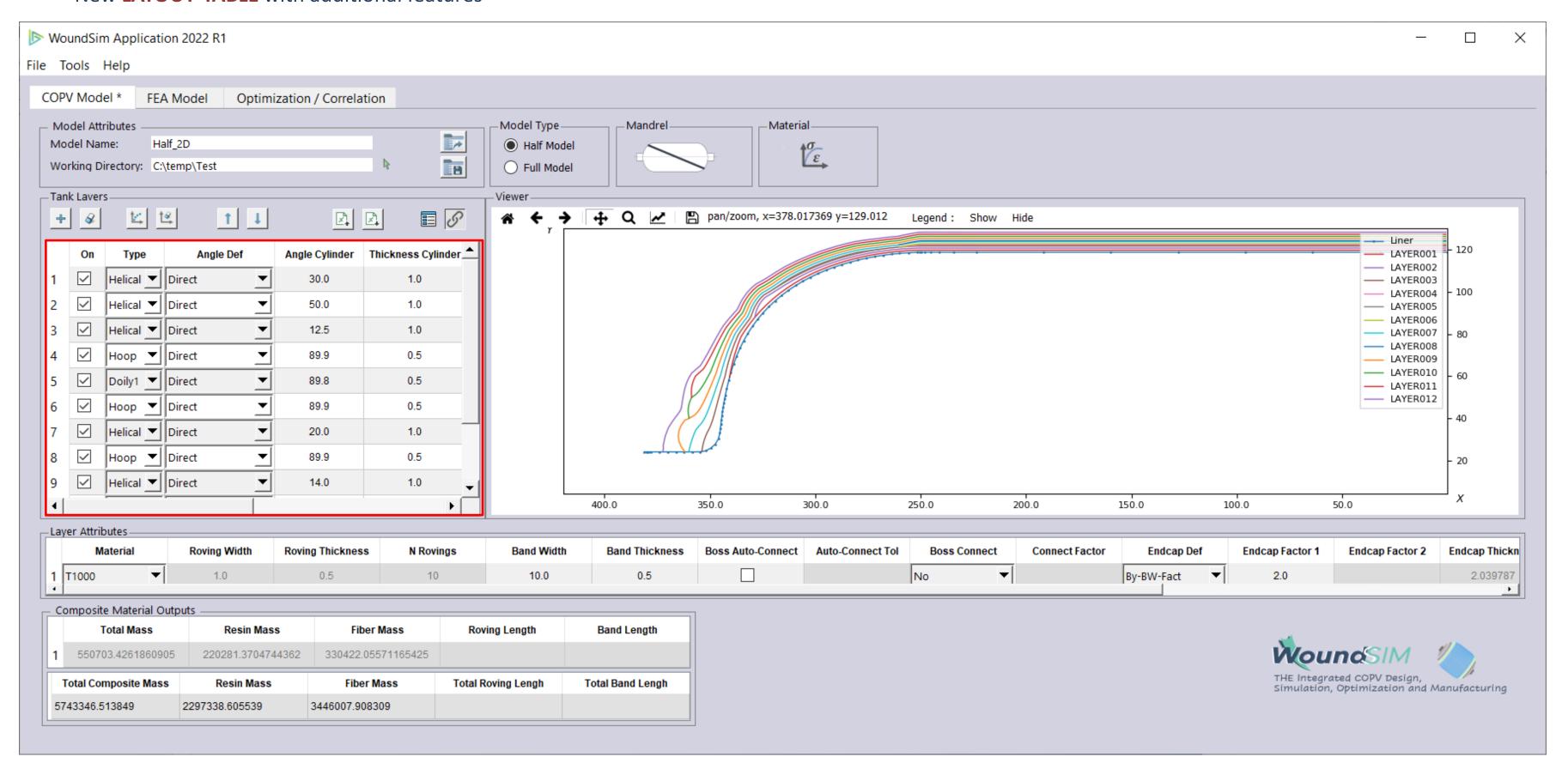
Explicit Solver Support



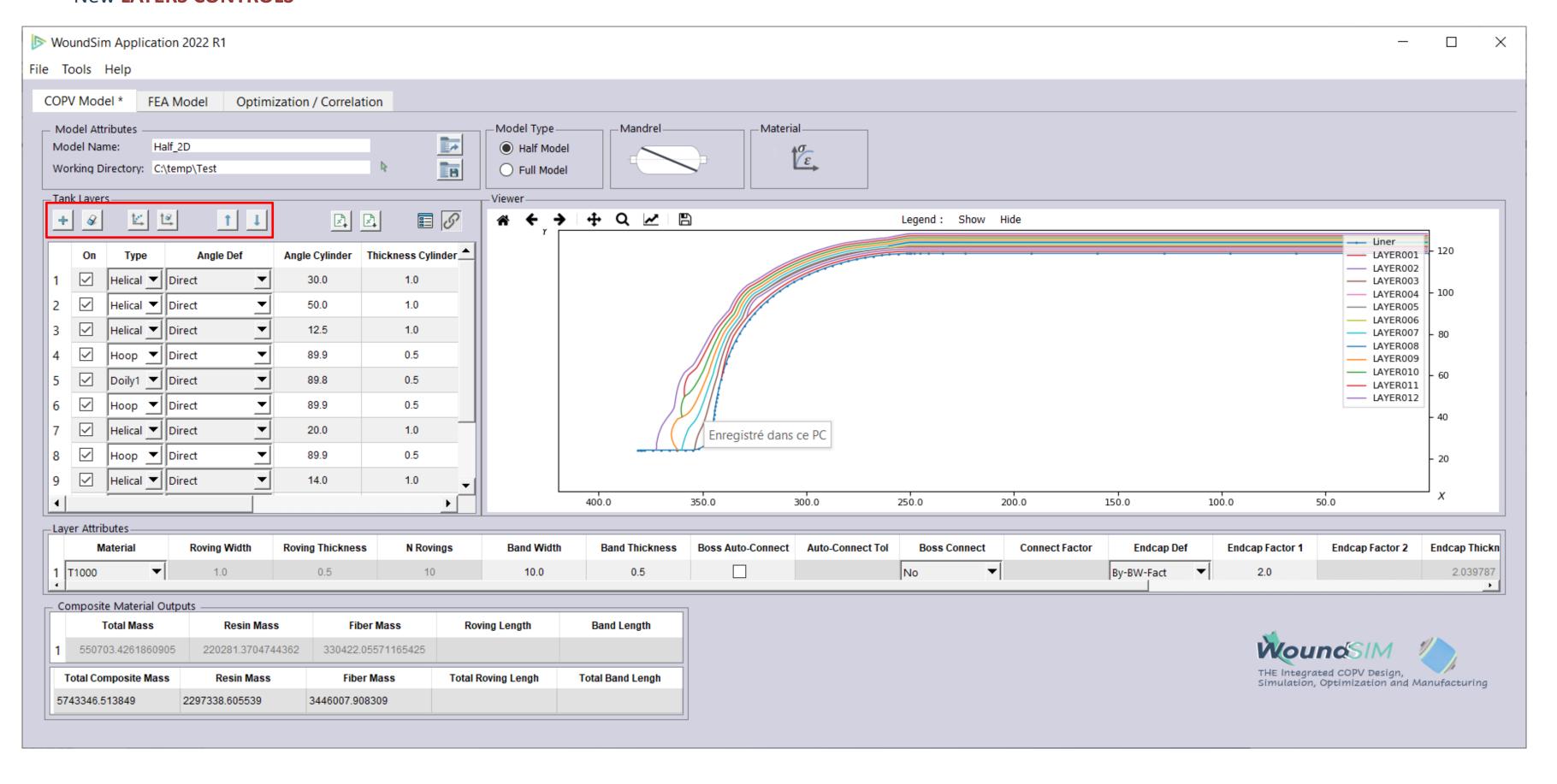
✓ New user-friendly USER INTERFACE



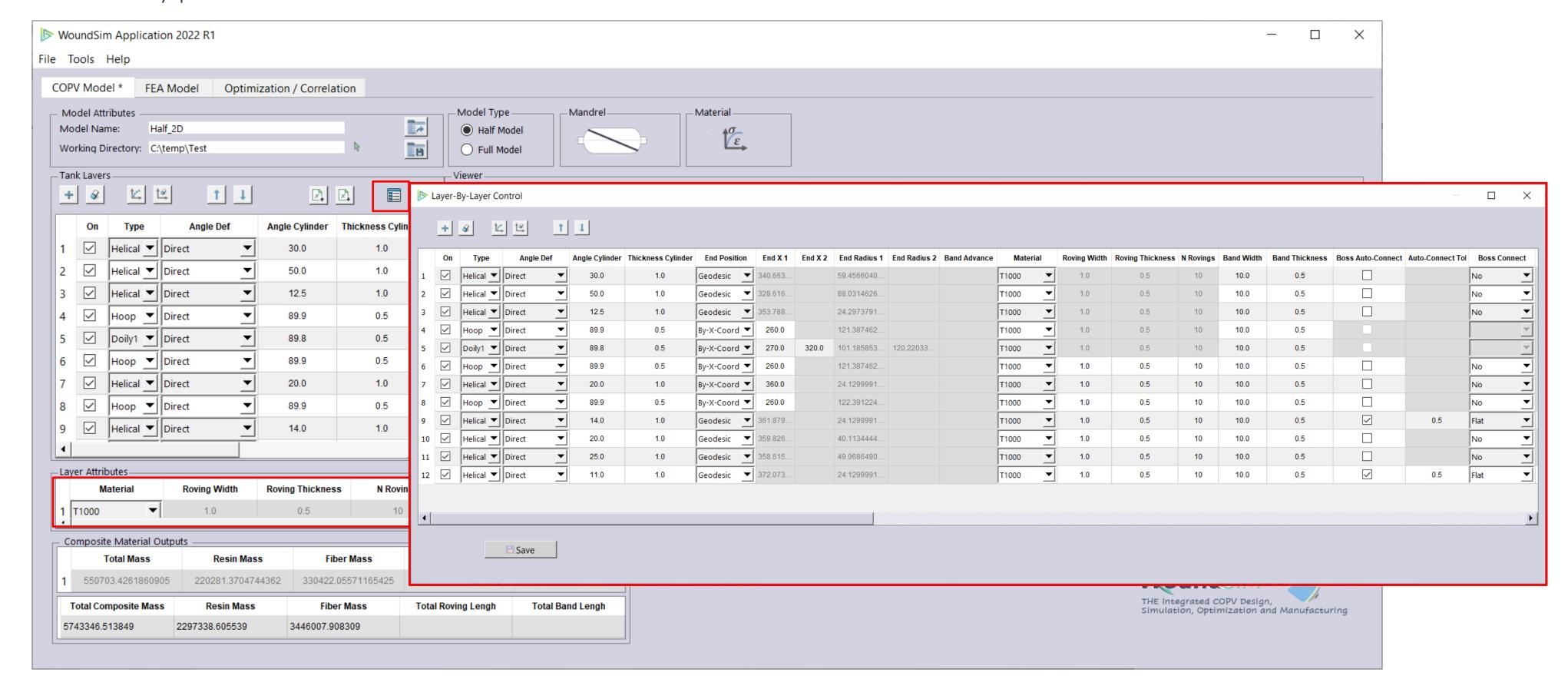
✓ New **LAYOUT-TABLE** with additional features



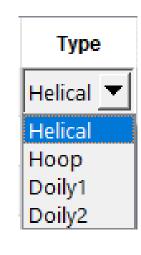
✓ New LAYERS CONTROLS

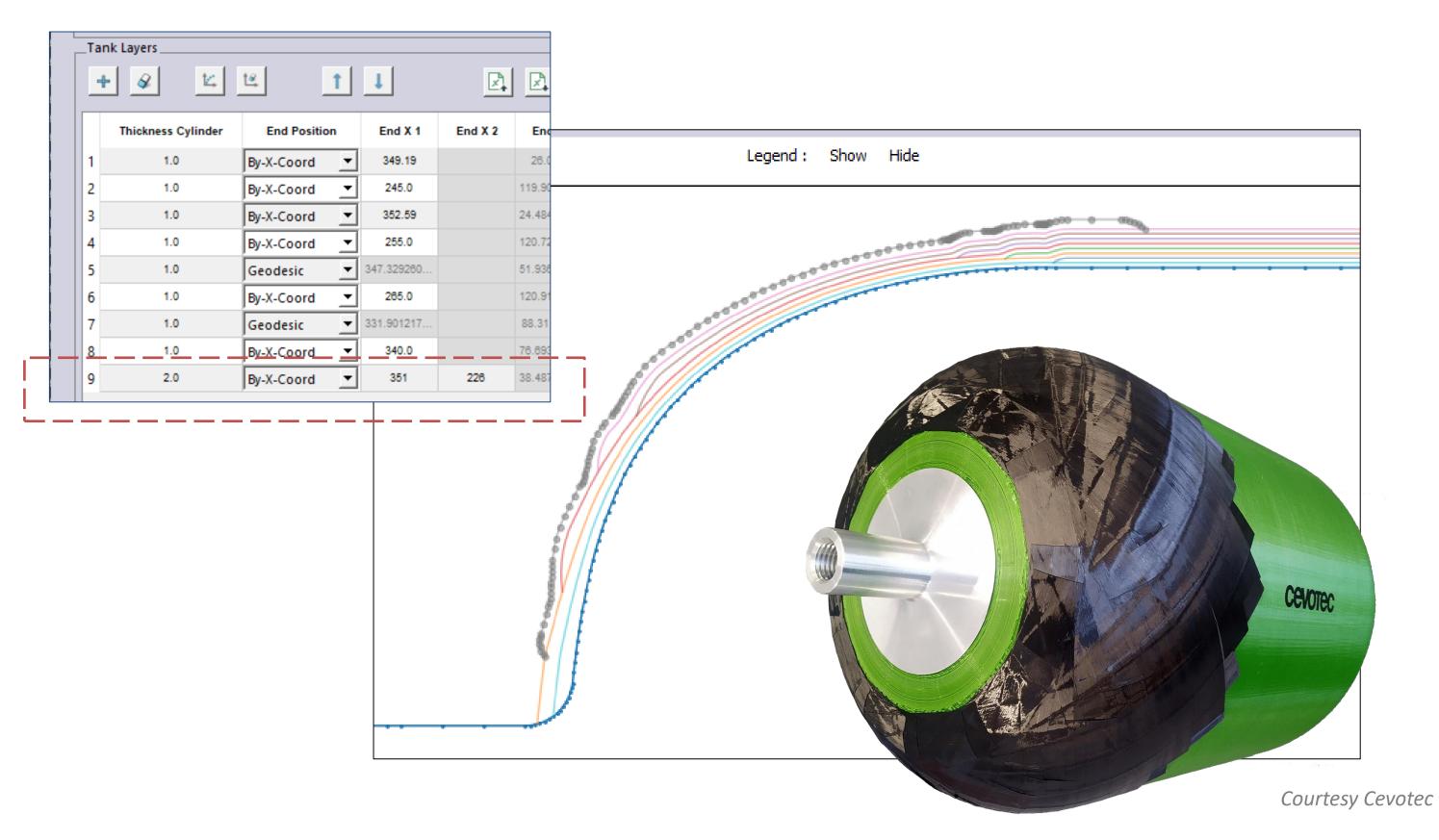


✓ Flexible layup construction with advanced **LAYER-BY-LAYER** controls

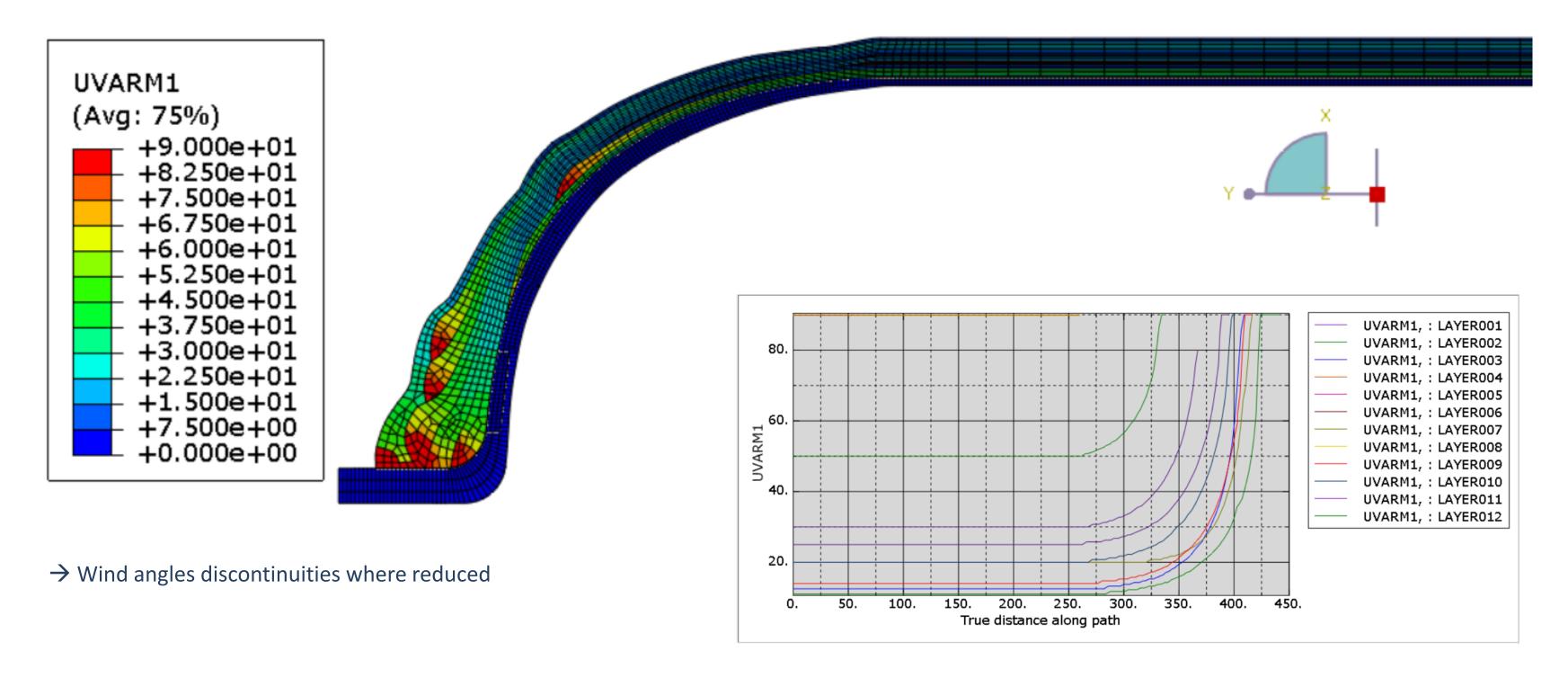


- ✓ Support for **DOILY layers**
 - ➤ Rubber shear-plies
 - ➤ Reinforcement layers

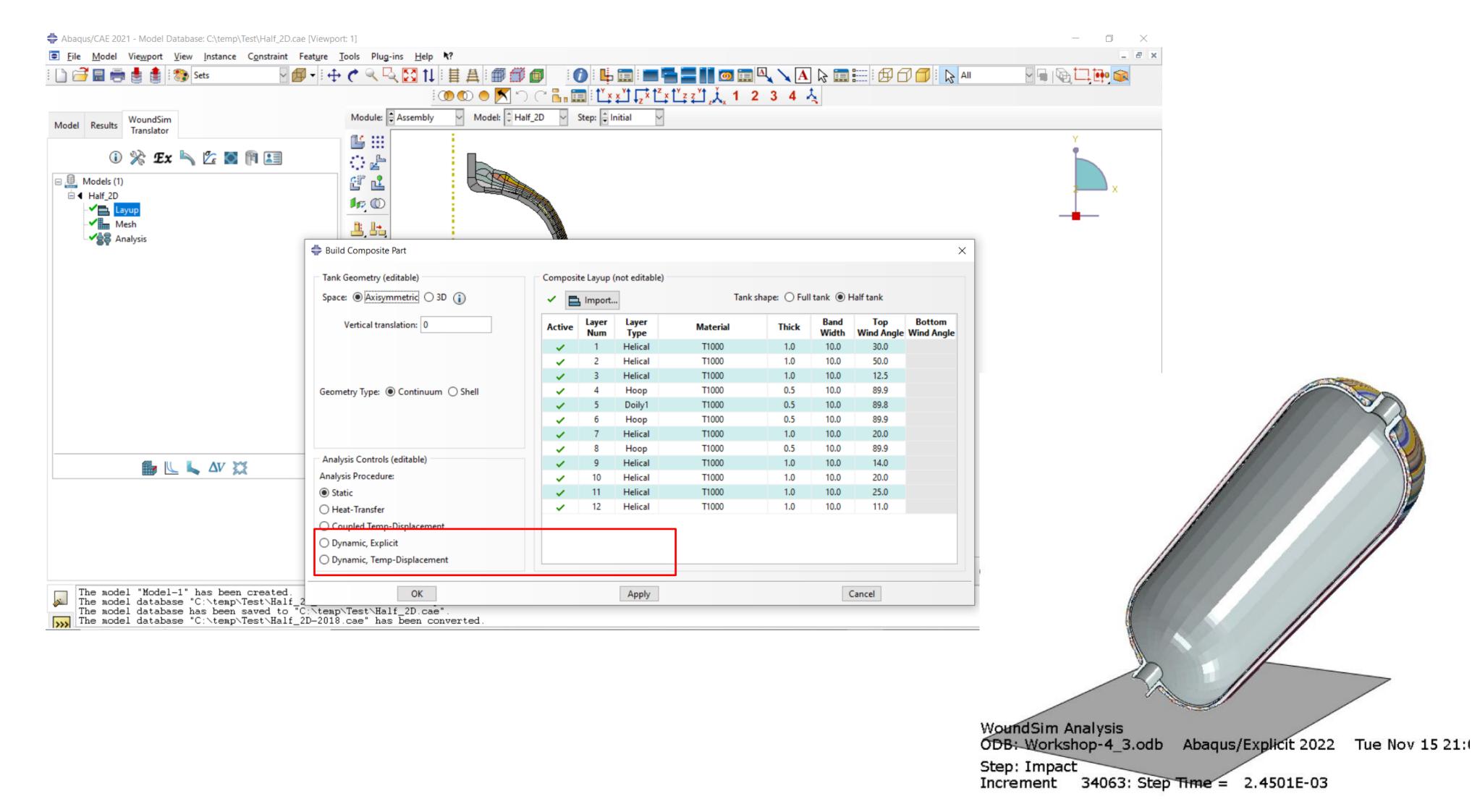




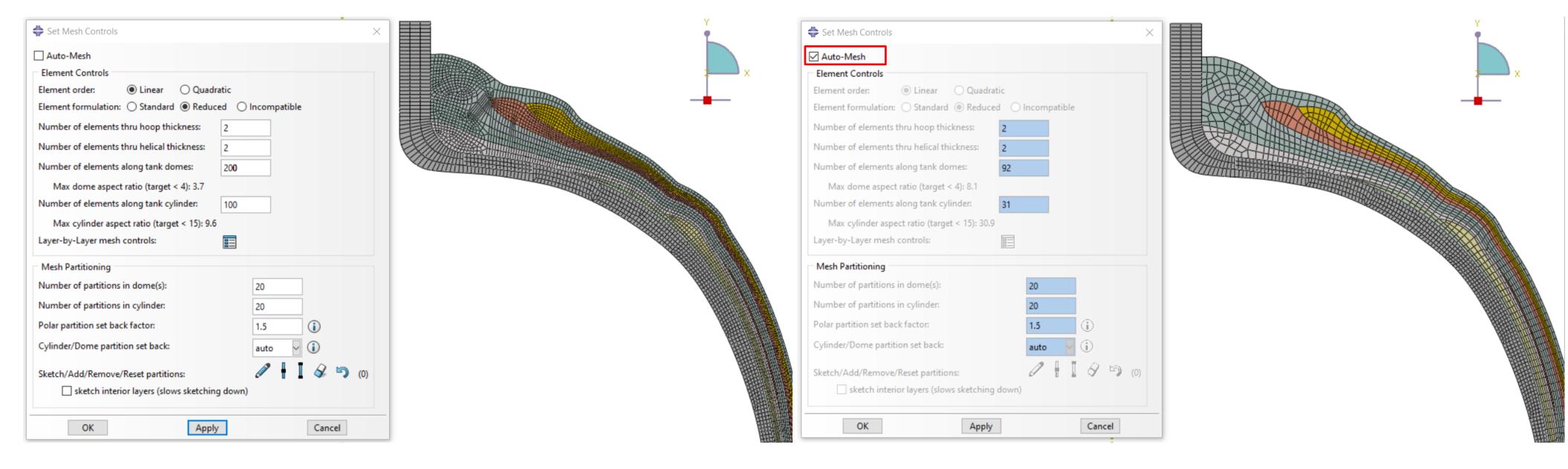
✓ Enhancements to **WIND ANGLES** computation near layer turn-around positions



✓ Abaqus/EXPLICIT solver support to model drop tests and high-speed impacts

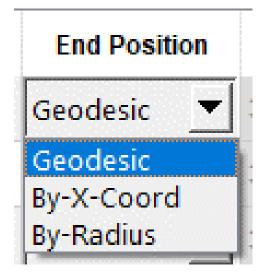


✓ Enhanced **MESHING** parameters including automatic mesh possibility



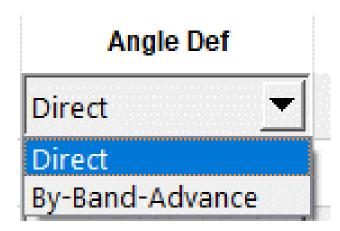
✓ Few **ADDITIONAL** Features

New Helical Layers **END-POSITION** possibilities



NON-SYMMETRIC Wing Angles Angle Cylinder 1 Angle Cylinder 2 30.0 40

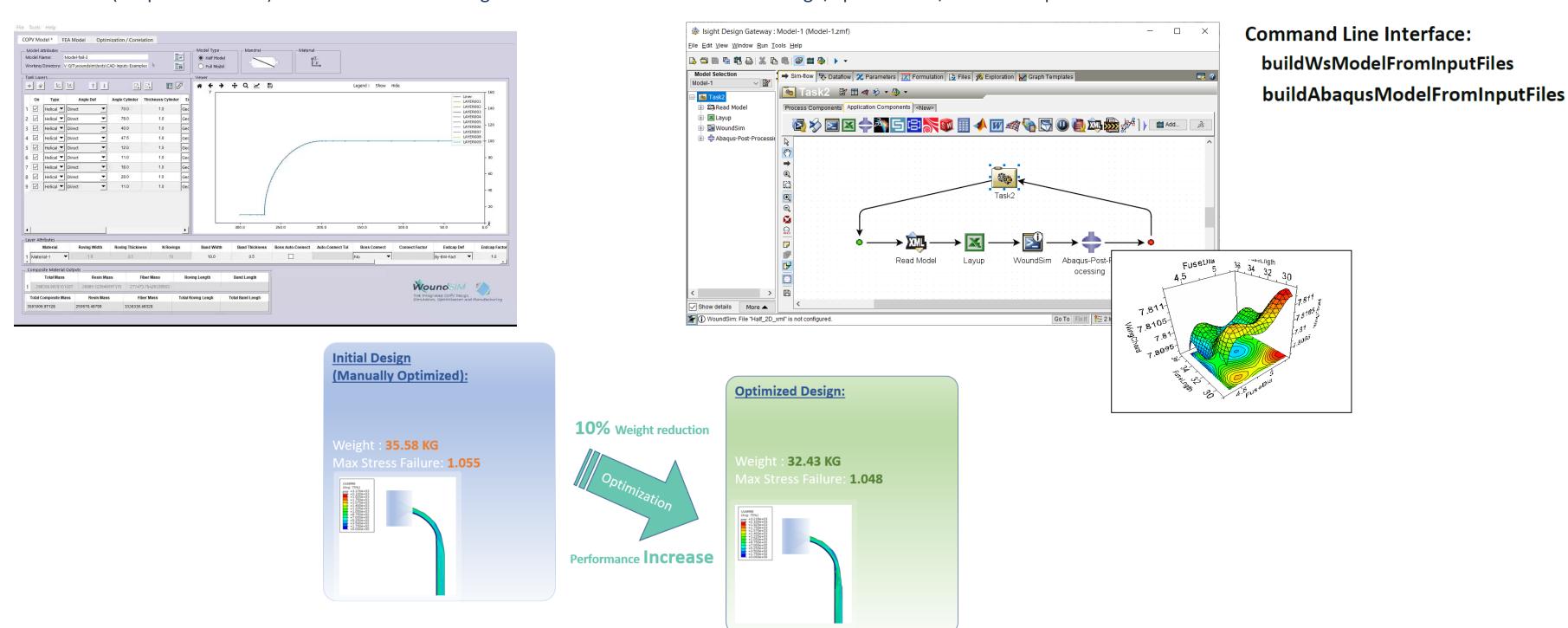
New Hoop Layers **ANGLE-DEFINITION** possibilities



Composite Material **OUTPUTS**

- Co	omposite Material Outp	outs ————			
	Total Mass	Resin Mass	Fiber Mass	Roving Length	Band Length
1	550703.4261860905	220281.3704744362	330422.05571165425		
Total Composite Mass		Resin Mass	Fiber Mass	Total Roving Lengh	Total Band Lengh
5743346.513849		2297338.605539	3446007.908309		

- Additional to the embedded Optimization based on the DOF technique, the **COMMAND LINE** interface allows now be run WoundSim in a fully automated way with a simple command line and input parameters,
 - ➤ WoundSim models are now compatible with optimization software (e.g., SIMULIA Isight)
 - > Meta-Models (Response Surface) of the tank can then be generated and used for advanced design/optimization/correlation procedures





THE integrated intelligence for composite pressure vessels design and simulation

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