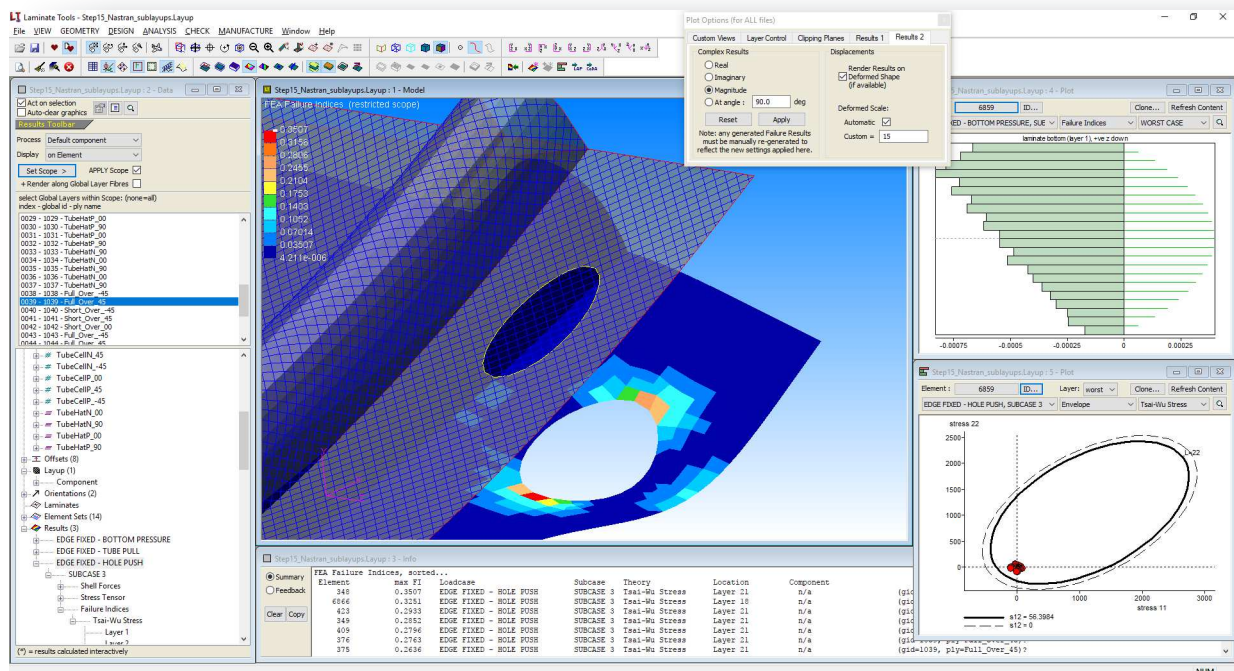


# Laminate Tools

*anaglyph*

## Data sheet



Laminate Tools offers best value-for-money to professional composites structures engineers. Used throughout Design to Manufacture of composites structures, it saves valuable time and allows all involved in the process to communicate data, thus streamlining the process.

Laminate Tools can interface with most industry standard CAD and FEA applications via popular file formats. With its ply draping features embedded in SOLIDWORKS, Laminate Tools makes ply creation and modification easy, in a familiar interface.

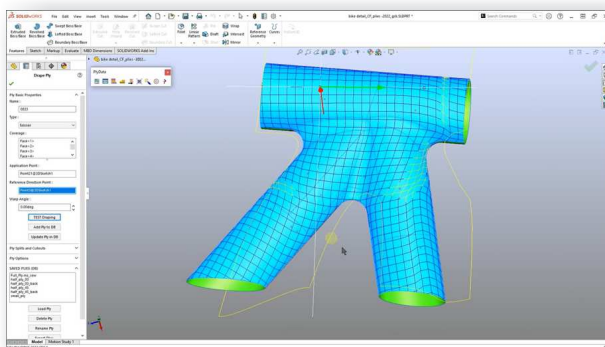
Users import surface models from almost any CAD system and define composite materials, plies and layup using a state-of-the-art graphical user interface. Ply producibility can be evaluated immediately using proven draping simulation algorithms to identify potential manufacturing difficulties, meaning fewer change orders downstream.

Data for finite element analysis purposes are generated seamlessly, ensuring that analysis models reflect the design intent. Results from the finite element analysis can be checked in detail using advanced composites failure criteria, and weak areas identified rapidly.

Manufacturing information such as flat patterns and plybooks are produced to ensure efficient use of manufacturing data. Finally, Laminate Tools can be used as an electronic ply book to communicate the complex structure of composite components and structures to clients, subcontractors and the shop floor.

## BENEFITS

- It is focused on laminated composites.
- It bridges the Design-Analysis-Manufacture domains.
- It supports industry standard file formats.
- It offers powerful composites visualisation and becomes invaluable in simply examining a design and pinpointing troublesome areas where composite properties must be reviewed.
- It offers an effective method to communicate information securely and up to date, both within and across organisations.
- It can be used to view past designs for reference purposes, without the need for the original software that was used for the creation, and without running the risk of incurring accidental change



## LAMINATE TOOLS WITH SOLIDWORKS

**Laminate Tools** comes with a SOLIDWORKS add-in which allows the user to define plies from inside SOLIDWORKS and then transfer them in a single operation to Laminate Tools.